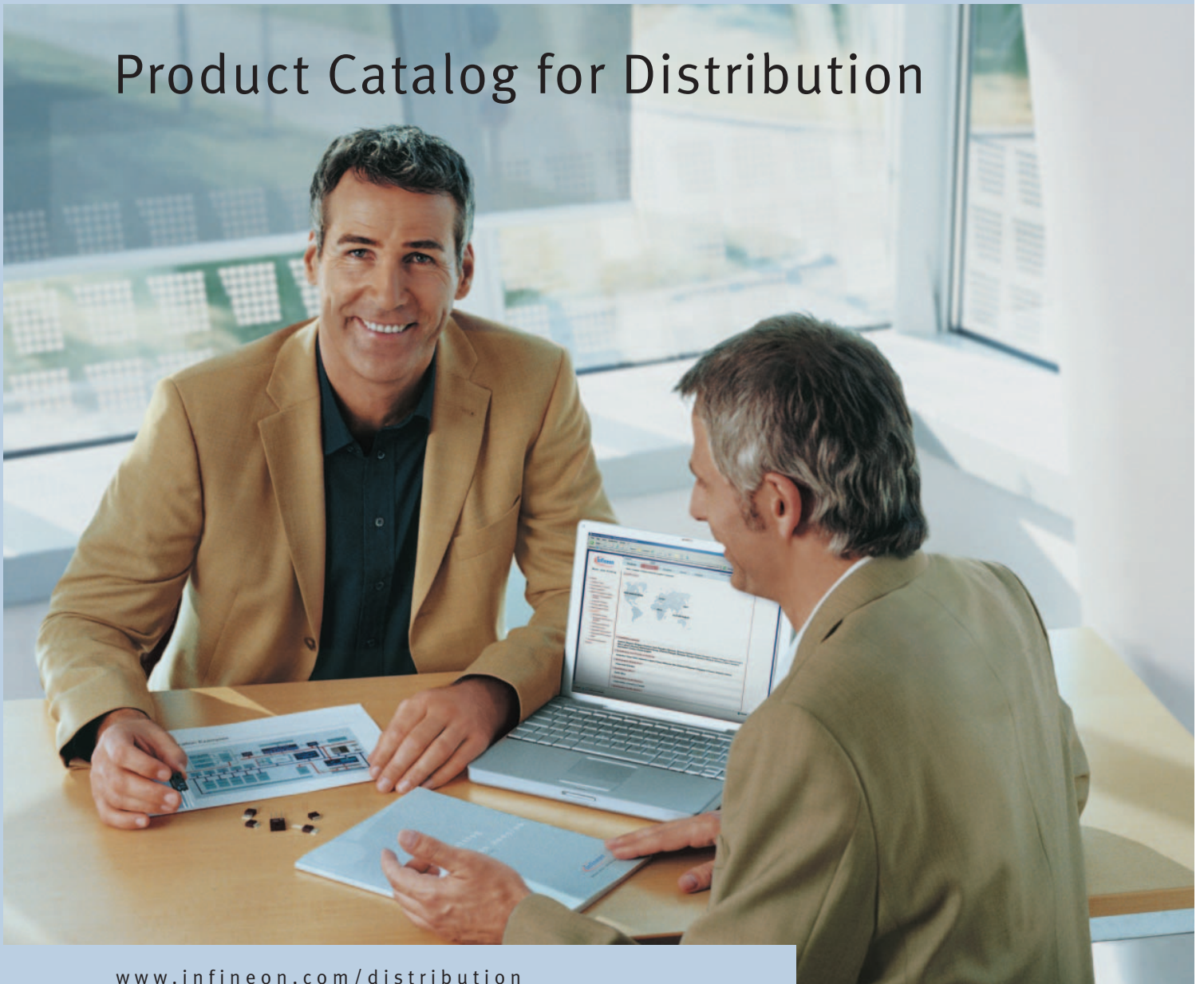


# Product Catalog for Distribution



[www.infineon.com/distribution](http://www.infineon.com/distribution)



Never stop thinking

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Reflecting the depth and range of our offering, this overview extends from communication devices and microcontrollers through power semiconductors and discretes to sensors and security solutions. For fast and easy reference, we have kept technical details to a minimum and added an overview of all device names and order codes at the back. Please refer to our data sheets, data books and user's manuals if you require in-depth technical data on a given product.

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- ▼ Newly included components
- Components not suitable for new design
- ◆ Products available through dedicated distributors
- SMD (**S**urface **M**ounted **D**evice)s  
gray lines indicate SMDs
- ® Registered trademark
- TM Trademark

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# Communication

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Type	Ordering Code	Package	Description
<b>Wired Communication Broadband Access</b>			
<b>Symmetrical DSL</b>			
▼ PEF 21624 E V1.2-G	SP000054059	P-LBGA-324-2	SOCRATES® (SDFE-1): 2nd. generation symmetrical DSL front end with 1-channel for TDM applications, tray
▼ PEF 22624 E V1.3-G	SP000081099	PG-LBGA-324-2	SOCRATES® (SDFE-2): 2nd. generation symmetrical DSL front end with 2-channel for TDM applications, tray
▼ PEF 24624 E V2.1-G	SP000208961	PG-LBGA-324-2	SOCRATES® (SDFE-4): 2nd. generation symmetrical DSL front end with 4-channel for TDM applications, tray
▼ PEF 24624 E V2.1-G	SP000223350	PG-LBGA-324-2	SOCRATES® (SDFE-4): 2nd. generation symmetrical DSL front end with 4-channel for TDM applications, tape & reel
▼ PEF 24625 E V1.2-G	SP000054060	PG-BGA-484-1	SOCRATES® (SDC-16i): 2nd. generation symmetrical DSL controller for 16-channels and IMA (SDC-16i). Only available as part of SOCRATES®-16Bis chipset, which consists of 1 x PEF24625 (SDC-16i) + 4 x PEF 24624 (SDFE-4), tray
▼ PEF 24625 E V1.2-G	SP000223349	PG-BGA-484-1	SOCRATES® (SDC-16i): 2nd. generation symmetrical DSL controller for 16-channels and IMA (SDC-16i). Only available as part of SOCRATES®-16Bis chipset, which consists of 1 x PEF24625 (SDC-16i) + 4 x PEF 24624 (SDFE-4), tape & reel
▼ PEF 21628 E V1.1-G	SP000213076	PG-LBGA-324-2	SOCRATES® (SOCRATES®-1e): 3rd. generation EFM-(Ethernet First Mile) symmetrical DSL transceiver with 1-channel for IP, ATM, TDM applications, tray
▼ PEF 22628 E V1.1-G	SP000213077	PG-LBGA-324-2	SOCRATES® (SOCRATES®-2e): 3rd. generation EFM-(Ethernet First Mile) symmetrical DSL transceiver with 2-channel for IP, ATM, TDM applications, tray
▼ PEF 24628 E V1.1-G	SP000085010	PG-LBGA-324-2	SOCRATES® (SOCRATES®-4e): 3rd. generation EFM-(Ethernet First Mile) symmetrical DSL transceiver with 4-channel for IP, ATM, TDM applications, tray
▼ PEF 21627 E V1.1-G	SP000218166	PG-LBGA-324-2	SOCRATES® (SOCRATES®-1U): 3rd. generation symmetrical DSL front end with 1-channel for ATM, TDM, IP applications, tray
▼ PEF 22627 E V1.1-G	SP000218168	PG-LBGA-324-2	SOCRATES® (SOCRATES®-2U): 3rd. generation symmetrical DSL front end with 2-channel for ATM, TDM, IP applications, tray
▼ PEF 24627 E V1.1-G	SP000208962	PG-LBGA-324-2	SOCRATES® (SOCRATES®-4U): 3rd. generation symmetrical DSL front end with 4-channel for ATM, TDM, IP applications, tray
▼ EASY SDFE-2	SP000008138	—	SOCRATES® (SDFE-2): Evaluation board for PEF 22624 (SDFE-2)
▼ EASY SDFE-4	SP000008101	—	SOCRATES® (SDFE-4): Evaluation board for PEF 24624 (SDFE-4)
▼ EASY 24624 MII	SP000008100	—	SOCRATES® (SDC-16i): Evaluation board for PEF 24625 (SDC16i)
▼ EASY 24624 TDM	SP000007925	—	SOCRATES®: TDM module for EASY 24624 MII. This optional board gives TDM connection to EASY 24624 MII for testing purposes
▼ EASY 24628 MII	SP000089850	—	SOCRATES® (SOCRATES®-4e): Evaluation board for PEF 24628
▼ EASY 24628 UTOPIA	SP000244336	—	SOCRATES® (SOCRATES®-4e): Evaluation board for PEF 24628

SMD = Surface Mounted Device

Type	Ordering Code	Package	Description
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**Wired Communication Broadband Access**

**ADSL**

▼ PSB 50510 E V1.3-G	SP000068030	PG-LBGA-256-1	AMAZON-M: Single Chip ADSL/2/2+ cpe solution with integrated analog front end (AFE) and line driver (LD). 3-port switch, PCI, 1xMII, 1 x TP, tray
▼ PSB 50505 E V1.3-G	SP000223783	PG-LBGA-256-1	AMAZON-ME: Single Chip ADSL/2/2+ cpe solution with integrated analog front end (AFE) and line driver (LD). 3-port switch, PCI, 2xMII, tape & reel
▼ PSB 50505 E V1.3-G	SP000068029	PG-LBGA-256-1	AMAZON-ME: Single Chip ADSL/2/2+ cpe solution with integrated analog front end (AFE) and line driver (LD). 3-port switch, PCI, 2xMII, tray
▼ PSB 50501 EL V1.2-G	SP000053494	PG-LFBGA-200-1	AMAZON-E: Two Chip ADSL/2/2+ solution PSB 50530 (AFE) + PSB 50501 (DFE). 3-port switch, 2xMII, tray
▼ PSB 50530 F V1.2	SP000017986	PG-TQFP-64-1	AMAZON-E: Two Chip ADSL/2/2+ cpe solution PSB 50530 (AFE) + PSB 50501 (DFE). 3-port switch, 2xMII, tray
▼ EASY50505 A V3.0	SP000234787	—	AMAZON-ME: Evaluation board for PSB 50505, annex A
▼ EASY50505 B V3.0	SP000234788	—	AMAZON-ME: Evaluation board for PSB 50505, annex B
▼ EASY50501 A	SP000069367	—	AMAZON-E: Evaluation board for PSB 50501 + PSB 50530, annex A
▼ EASY50501 B	SP000069368	—	AMAZON-E: Evaluation board for PSB 50501 + PSB 50530, annex B

**VDSL2**

▼ PEB 83000 E V1.3-G	SP000201760	PG-LBGA-483-1	VINAX-CPE: Single chip VDSL2 cpe solution with integrated analog front end (AFE) and line driver (LD)
▼ EASY 83000 CPE	SP000215341	—	VINAX-CPE: Evaluation board for PEB 83000
▼ EASY 83000 HOSTLESS	SP000104531	—	VINAX-CPE: Evaluation board for PEB 83000

SMD = Surface Mounted Device



Type	Ordering Code	Package	Description
<b>Wired Communication Core Access</b>			
<b>T/E Carrier</b>			
<b>E1/T1/J1</b>			
▼ PEF 2256 H V2.2-G	SP000057074	PG-LBGA-81-1	FALC56 <sup>®</sup> : Single channel T1/E1/J1 framer, line interface unit (LIU) and signaling controller for long- and short- haul applications, tray
▼ PEF 22552 E V1.1-G	SP000065628	PG-LBGA-160-1	DualFALC <sup>®</sup> : Dual channel E1/T1/J1 framer, line interface unit (LIU) and signaling controller for long- and short- haul applications, tray
▼ PEF 22554 E V3.1-G	SP000074240	PG-LBGA-160-1	QuadFALC <sup>®</sup> : Quad channel E1/T1/J1 framer, line interface unit (LIU) and signaling controller for long- and short- haul applications, tray
▼ PEF 22554 HT V3.1	SP000064070	PG-TQFP-144-2	
PEF 22558 E V1.1-G	SP000008139	PG-LBGA-256-1	OctalFALC <sup>®</sup> : Octal channel E1/T1/J1 framer, line interface unit (LIU) and signaling controller for long- and short- haul applications, tray
▼ PEF 22504 E V2.1-G	SP000081770	PG-LBGA-160-1	QuadLIU <sup>™</sup> : Quad channel E1/T1/J1 line interface unit (LIU) for long- and short- haul applications, tray
▼ PEF 22504 HT V2.1	SP000209867	PG-TQFP-144-2	
▼ PEF 22508 E V1.1-G	SP000029953	PG-LBGA-256-1	OctalLIU <sup>™</sup> : Octal channel E1/T1/J1 line interface unit (LIU) for long- and short- haul applications, tray
▼ PEF 22508 E V1.1-G	SP000223351	PG-LBGA-256-1	OctalLIU <sup>™</sup> : Octal channel E1/T1/J1 line interface unit (LIU) for long- and short- haul applications, tape & reel
▼ PEF 22557 E V1.1-G	SP000055478	PG-LBGA-256-1	OctalFRAMER <sup>™</sup> : Octal channel E1/T1/J1 framer, tray
▼ EASY 2256 E V2.2	SP000106013	—	FALC56 <sup>®</sup> : Evaluation board for PEF 2256
▼ EASY 22552	SP000202849	—	DualFALC <sup>®</sup> : Evaluation board for PEF 22552
EASY 22554 V3.1	SP000007919	—	QuadFALC <sup>®</sup> : Evaluation board for PEF 22554
EASY 22558	SP000053860	—	OctalFALC <sup>®</sup> : Evaluation board for PEF 22558
▼ EASY 22504	on request	—	QuadLIU <sup>™</sup> : Evaluation board for PEF 22504
▼ EASY 22508	SP000202361	—	OctalLIU <sup>™</sup> : Evaluation board for PEF 22508
<b>E3/T3</b>			
▼ PEB 3445 E V2.1-G	SP000226333	PG-BGA-272-1	TE3-MUX: DS3 framer with M13 multiplexer, 0°C to 70°C, tray
▼ PEF 3445 E V2.1-G	SP000226334	PG-BGA-272-1	TE3-MUX: DS3 framer with M13 multiplexer, -40°C to 85°C, tray
▼ PEF 3460 E V1.2-G	SP000088005	PG-BGA-272-4	TE3-FALC <sup>®</sup> : Integrated DS3/E3 framer and T3/E3 line interface unit (LIU) for ATM, Frame Relay and PPP/IP, tray
PEF 3452 H V1.3	SP000007643	PG-MQFP-44-2	TE3-LIU <sup>™</sup> : Single channel line interface unit (LIU) for DS3, STS-1 and E3 applications, tray
▼ EASY 3445 V1.2	SP000007930	—	TE3-MUX: Evaluation board for PEB/PEF 3445 (TE3-MUX)
▼ EASY 3460	SP000007932	—	TE3-FALC <sup>®</sup> : Evaluation board for PEF 3460 (TE3-FALC <sup>®</sup> )
▼ EASY 3452 V1.2	SP000007947	—	TE3-LIU <sup>™</sup> : Evaluation board for PEF 3452 (TE3-LIU <sup>™</sup> )

SMD = Surface Mounted Device

Type	Ordering Code	Package	Description
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**Wired Communication Core Access**

**HDLC Controller**

PEB 20525 F V1.3	SP000007591	PG-TQFP-100-1	SEROCCO-H: Two channel serial optimized communication controller for HDLC and PPP. Full duplex data rates on each channel up to 12.5 Mbit/s, 0°C to 85°C, tray
▼ PEF 20525 F V1.3	SP000225720	PG-TQFP-100-1	SEROCCO-H: Two channel serial optimized communication controller for HDLC and PPP. Full duplex data rates on each channel up to 12.5 Mbit/s, -40°C to 85°C, tape & reel
PEF 20525 F V1.3	SP000007592	PG-TQFP-100-1	SEROCCO-H: Two channel serial optimized communication controller for HDLC and PPP. Full duplex data rates on each channel up to 12.5 Mbit/s, -40°C to 85°C, tray
PEB 20532 F V1.3	SP000007512	PG-TQFP-100-1	SEROCCO-M: Two channel serial optimized communication controller for HDLC and PPP. Full duplex data rates on each channel up to 12.5 Mbit/s, 0°C to 85°C, tray
PEF 20532 F V1.3	SP000007511	PG-TQFP-100-1	SEROCCO-M: Two channel serial optimized communication controller for HDLC and PPP. Full duplex data rates on each channel up to 12.5 Mbit/s, -40°C to 85°C, tray
PEB 20542 F V1.3	SP000007633	PG-TQFP-144-2	SEROCCO-D: Two channel serial optimized communication controller for HDLC and PPP. Full duplex data rates on each channel up to 16 Mbit/s. Integrated DMA controller with 4 independent DMA channels, 0°C to 85°C, tray
PEF 20542 F V1.3	SP000007634	PG-TQFP-144-2	SEROCCO-D: Two channel serial optimized communication controller for HDLC and PPP. Full duplex data rates on each channel up to 16 Mbit/s. Integrated DMA controller with 4 independent DMA channels, -40°C to 85°C, tray
▼ PEB 20256 E V2.2	SP000205442	PG-BGA-388-2	MUNICH256: Multichannel network interface controller for HDLC/PPP with 256 channels and on-chip data management unit, tray
EASY 20525 V1.1	SP000007914	—	SEROCCO-H: Evaluation board for PEB/PEF 20525
EASY 20532 V1.1	SP000007915	—	SEROCCO-M: Evaluation board for PEB/PEF 20532
EASY 20542 V1.1	SP000007916	—	SEROCCO-D: Evaluation board for PEB/PEF 20542
EASY 256 V1.1	SP000007944	—	MUNICH256: Evaluation board for PEB 20256
EASY 256 E 1T1 V1.1	SP000007945	—	MUNICH256: Reference design for PEB 20256 and PEF 22554 (MUNICH256/QuadFALC®)

**Interworking Products**

**ATM to Time Slot**

PXB 4219 E V3.4-G	SP000223294	PG-BGA-256-1	IWE8® CMAP: Interworking element between 8 E1/T1 lines and ATM, tray
▼ PXB 4220 E V3.4-G	SP000017873	PG-BGA-256-1	IWE8®: Interworking element between 8 E1/T1 lines and ATM, tray
▼ PXB 4221 E V3.4-G	SP000017875	PG-BGA-256-1	
▼ PXF 4222 E V1.3-G	SP000017876	PG-BGA-388-2	IWORX®-P: Next generation interworking controller between ATM and PDH, tray
▼ PXF 4225 E V1.3-G	SP000017877	PG-BGA-388-2	IWORX®: Interworking controller between ATM and PDH, tray
EASY 4220	on request	—	IWE8®: Reference design for PXF 4220
EASY 4222	on request	—	IWORX-P®: Reference design for PXF 4222
EASY 4225	on request	—	IWORX®: Reference design for PXF 4225

SMD = Surface Mounted Device

Type	Ordering Code	Package	Description
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**Wired Communication Voice Access**

**VoIP**

▼ PEB 3331 HT V2.1	SP000232901	PG-TQFP-100-1	VINETIC®-1CPE: Single channel codec and VoIP DSP, G.729, G.723.1, iLBC, LEC, T.38, RTP (with patent indemnification fees for vocoders), 0°C to 85°C, tray
▼ PEB 3331 HT V2.1	SP000083520	PG-TQFP-100-1	VINETIC®-1CPE: Single channel codec and VoIP DSP, G.729, G.723.1, iLBC, LEC, T.38, RTP (without patent indemnification fees for vocoders), 0°C to 85°C, tray
▼ PEB 3331 F V2.1	SP000083521	PG-TQFP-64-1	VINETIC®-1CPE: Single channel codec and VoIP DSP, G.729, G.723.1, iLBC, LEC, T.38, RTP (without patent indemnification fees for vocoders), 0°C to 85°C, tape & reel
▼ PEB 3332 F V2.1	SP000065273	PG-TQFP-64-1	VINETIC®-2CPE: Single channel codec and VoIP DSP, G.729, G.723.1, iLBC, LEC, T.38, RTP (without patent indemnification fees for vocoders), 0°C to 85°C, tray
▼ PEB 3332 HT V2.1	SP000224283	PG-TQFP-100-1	VINETIC®-2CPE: Single channel codec and VoIP DSP, G.729, G.723.1, iLBC, LEC, T.38, RTP (without patent indemnification fees for vocoders), 0°C to 85°C, tape & reel
▼ PEF 3332 HT V2.1	SP000229576	PG-TQFP-100-1	VINETIC®-2CPE: Single channel codec and VoIP DSP, G.729, G.723.1, iLBC, LEC, T.38, RTP (with patent indemnification fees for vocoders), -40°C to 85°C, tray
▼ PEB 3332 F V2.1	SP000065272	PG-TQFP-64-1	VINETIC®-2CPE: Single channel codec and VoIP DSP, G.729, G.723.1, iLBC, LEC, T.38, RTP (without patent indemnification fees for vocoders), 0°C to 85°C, tape & reel
▼ PEB 3342 HT V2.1	SP000201618	PG-TQFP-100-9	VINETIC®-2ATA: Dual channel codec and VoIP DSP, G.729, G.723.1, iLBC, LEC, T.38, RTP (without patent indemnification fees for vocoders), 0°C to 85°C, tray
PEB 3324 E V1.4-G	SP000108018	PG-LBGA-176-3	VINETIC®-4VIP: Four channel codec and VoIP DSP, G.723, G.729, G.728, T.38 fax relay, LEC, AAL2 and RTP (without patent indemnification fees for vocoders), 0°C to 85°C, tray
PEB 3324 HL V1.4	SP000008031	PG-LQFP-176-2	
▼ PEB 3324 HL V1.4 PE	SP000017214	PG-LQFP-176-2	VINETIC®-4VIP: Four channel codec and VoIP DSP, G.723, G.729, G.728, T.38 fax relay, LEC, AAL2 and RTP (with patent indemnification fees for vocoders), large packing unit 240 pcs, 0°C to 85°C, tray
▼ PEB 3324 HL V1.4 PE	SP000017208	PG-LQFP-176-2	VINETIC®-4VIP: Four channel codec and VoIP DSP, G.723, G.729, G.728, T.38 fax relay, LEC, AAL2 and RTP (with patent indemnification fees for vocoders), large packing unit 40 pcs, 0°C to 85°C, tray
▼ PEB 3340 HT V2.1	SP000201482	PG-TQFP-100-9	VINETIC®-CL: Two channel VoIP DSP with PCM interface, G.729, G.723.1, iLBC, LEC, T.38, RTP (without patent indemnification fees for vocoders), 0°C to 85°C, tray
▼ PEF 3314 HL V2.2	SP000018270	PG-LQFP-176-2	VINETIC®-4M: Four channel codec with VoIP DSP for G.728, AAL2 and RTP (without patent indemnification fees for vocoders), -40°C to 85°C, tray
▼ PEF 3314 EL V2.2-G	SP000053926	PG-LBGA-144-1	
▼ PEF 3314 E V2.2-G	SP000068753	PG-LBGA-176-2	
EASY 334	SP000007929	—	VINETIC®-4VIP: Evaluation board for PEB 3324. Evaluation board includes 1 x EASY 334 + 2 x SMART 4265 (SLIC-E)

**SLIC + Codec**

▼ PEF 3394 HL V2.2	SP000231959	PG-LQFP-176-2	VINETIC®-4C: Fully programmable 4-channel CODEC with voice processing DSP, enhanced feature set, large packing unit 240 pcs, -40°C to 85°C, tray
▼ PEF 3394 HL V2.2	SP000018278	PG-LQFP-176-2	VINETIC®-4C: Fully programmable 4-channel CODEC with voice processing DSP, enhanced feature set, large packing unit 40 pcs, -40°C to 85°C, tray
▼ PEF 3394 EL V2.2-G	SP000212320	PG-LBGA-144-1	VINETIC®-4C: Fully programmable 4-channel CODEC with voice processing DSP, enhanced feature set, large packing unit 160 pcs, -40°C to 85°C, tray
▼ PEF 3394 EL V2.2-G	SP000053927	PG-LBGA-144-1	VINETIC®-4C: Fully programmable 4-channel CODEC with voice processing DSP, enhanced feature set, large packing unit 960 pcs, -40°C to 85°C, tray

SMD = Surface Mounted Device

Type	Ordering Code	Package	Description
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**Wired Communication Voice Access**

**SLIC + Codec**  
(cont'd)

▼ PEF 3304 EL V2.1-G	SP000223348	PG-LBGA-144-1	VINETIC®-4S: Fully programmable 4-channel CODEC with voice processing DSP, standard feature set, -40°C to 85°C, tape & reel
▼ PEF 3304 EL V2.1-G	SP000054559	PG-LBGA-144-1	VINETIC®-4S: Fully programmable 4-channel CODEC with voice processing DSP, standard feature set, -40°C to 85°C, tray
▼ PEF 3304 HL V2.1	SP000053496	PG-LQFP-176-2	
▼ PEF 3304 E V2.1-G	SP000053495	PG-LBGA-176-3	
▼ PEB 3165 F V1.1	SP000008162	PG-TQFP-64-1	SLICOFI®-1 (DuSLIC®): Single channel subscriber line interface codec filter, enhanced feature set, 0°C to 85°C, tape & reel
▼ PEB 3164 F V1.1	SP000222941	PG-TQFP-64-1	SLICOFI®-1S (DuSLIC®): Single channel subscriber line interface codec filter, enhanced feature set, 0°C to 85°C, tape & reel
▼ PEB 3164 F V1.1	SP000008146	PG-TQFP-64-1	SLICOFI®-1S (DuSLIC®): Single channel subscriber line interface codec filter, enhanced feature set, 0°C to 85°C, tray
PEB 3265 F V1.5	SP000007818	PG-TQFP-64-1	SLICOFI®-2 (DuSLIC®): Single channel subscriber line interface codec filter, enhanced feature set, 0°C to 85°C, tape & reel
PEB 3265 F V1.5	SP000007817	PG-TQFP-64-1	SLICOFI®-2 (DuSLIC®): Single channel subscriber line interface codec filter, enhanced feature set, 0°C to 85°C, tray
PEB 3264 F V1.4	SP000007820	PG-TQFP-64-1	SLICOFI®-2S (DuSLIC®): Single channel subscriber line interface codec filter, enhanced feature set, 0°C to 85°C, tape & reel
PEB 3264 F V1.4	SP000007819	PG-TQFP-64-1	SLICOFI®-2S (DuSLIC®): Single channel subscriber line interface codec filter, enhanced feature set, 0°C to 85°C, tray
▼ PEB 2466 H V2.2	SP000007516	PG-MQFP-64-1	SICOFI®-4µC (SICOFI® + FlexiSLIC™): Four channel codec filter with PCM and microcontroller interface, large packing unit 84 pcs, 0°C to 85°C, tray
PEB 2466 H V2.2	SP000007517	PG-MQFP-64-1	SICOFI®-4µC (SICOFI® + FlexiSLIC™): Four channel codec filter with PCM and microcontroller interface, 0°C to 85°C, tape & reel
PEF 2466 H V2.2	SP000007776	PG-MQFP-64-1	SICOFI®-4µC (SICOFI® + FlexiSLIC™): Four channel codec filter with PCM and microcontroller interface, -40°C to 85°C, tape & reel
▼ PEB 2466 H V2.2	SP000007515	PG-MQFP-64-1	SICOFI®-4µC (SICOFI® + FlexiSLIC™): Four channel codec filter with PCM and microcontroller interface, large packing unit 504 pcs, 0°C to 85°C, tray
PBL 38620/2 SOA	SP000017252	PG-DSO-24-8	PBL38620 (SICOFI® + FlexiSLIC™): Subscriber line interface circuit (SICOFI-4µC + PBL 38620), -40°C to 85°C, tape & reel
PBL 38620/2 SHA	SP000007870	P-SSOP-24-1	
PBL 38620/2 SOT	SP000007890	PG-DSO-24-8	
PBL 38620/2 QNA	SP000017950	PG-LCC-28-3	
PBL 38621/2 SOA	SP000016951	P-DSO-24-8	PBL38621 (SICOFI® + FlexiSLIC™): Subscriber line interface circuit (SICOFI-4µC + PBL 38621), -40°C to 85°C, tape & reel
PBL 38621/2 SHA	SP000007871	PG-SSOP-24-1	
PBL 38621/2 SOT	SP000007895	P-DSO-24-8	
PBL 38621/2 QNA	SP000017951	P-LCC-28-3	
PBL 38621/2 QNS	SP000007891	P-LCC-28-2	PBL38621 (SICOFI®+FlexiSLIC™): Subscriber line interface circuit (SICOFI-4µC + PBL 38621), -40°C to 85°C, pre-pack
PBL 38630/2 SOA	SP000017739	P-DSO-24-8	PBL38630 (SICOFI® + FlexiSLIC™): Subscriber line interface circuit (SICOFI-4µC + PBL 38630), -40°C to 85°C, tape & reel
PBL 38630/2 SOT	SP000007899	P-DSO-24-8	
PBL 38630/2 QNA	SP000017952	P-LCC-28-3	
PBL 38630/2 QNT	SP000007897	P-LCC-28-3	
PBL 38630/2 SOS	SP000007898	P-DSO-24-8	PBL38630 (SICOFI® + FlexiSLIC™): Subscriber line interface circuit (SICOFI-4µC + PBL 38630), -40°C to 85°C, pre-pack
PBL 38640/2 SOA	SP000016952	P-DSO-24-8	PBL38640 (SICOFI® + FlexiSLIC™): Subscriber line interface circuit (SICOFI-4µC + PBL 38640), -40°C to 85°C, tape & reel
PBL 38640/2 SOT	SP000007903	P-DSO-24-8	
PBL 38640/2 QNT	SP000007901	P-LCC-28-3	
PBL 38640/2 QNA	SP000017953	P-LCC-28-3	
PBL 38650/2 QNT	SP000007905	P-LCC-28-3	PBL38650 (SICOFI® + FlexiSLIC™): Subscriber line interface circuit (SICOFI-4µC + PBL 38650), -40°C to 85°C, tape & reel
PBL 38650/2 QNA	SP000017954	P-LCC-28-3	
PBL 38650/2 QNS	SP000007904	P-LCC-28-3	PBL38650 (SICOFI® + FlexiSLIC™): Subscriber line interface circuit (SICOFI-4µC + PBL 38650), -40°C to 85°C, pre-pack

SMD = Surface Mounted Device

Type	Ordering Code	Package	Description
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**Wired Communication Voice Access**

**SLIC + Codec**  
(cont'd)

▼ PEB 4265 T V2.1	SP000101234	PG-DSO-20-5	SLIC-E (DuSLIC®): Subscriber line interface circuit, enhanced feature set, -40°C to 85°C, tape & reel
▼ PEB 4265 V V2.1	SP000101233	PG-VQFN-48-4	
▼ PEB 4265-2 V T V2.1	SP000206901	PG-DSO-20-5	SLIC-E2 (DuSLIC®): Subscriber line interface circuit, enhanced feature set, -40°C to 85°C, tape & reel
▼ PEB 4265-2 V V2.1	SP000102911	PG-VQFN-48-4	
PEF 4268 F V1.2	SP000211403	PG-TQFP-48-1	SLIC-DC (DuSLIC®): Subscriber line interface circuit, with integrated DC/DC converter, -40°C to 85°C, tape & reel
PEF 4268 F V1.2	SP000063679	PG-TQFP-48-1	SLIC-DC (DuSLIC®): Subscriber line interface circuit, with integrated DC/DC converter, -40°C to 85°C, tray
PEF 4268 T V1.2	SP000063678	PG-DSO-24-8	SLIC-DC (DuSLIC®): Subscriber line interface circuit, with integrated DC/DC converter, -40°C to 85°C, tape & reel
PEB 4266 V V1.2	SP000007763	PG-VQFN-48-4	SLIC-P (DuSLIC®): Subscriber line interface circuit, enhanced power management, 0°C to 85°C, tape & reel
PEB 4266 T V1.2	SP000007528	PG-DSO-20-5	
▼ PEF 4264 V V2.1	SP000231488	PG-VQFN-48-4	SLIC-S (DuSLIC®): Subscriber line interface circuit, standard feature set, -40°C to 85°C, tape & reel
▼ PEF 4264 T V2.1	SP000231489	PG-DSO-20-5	
▼ PEF 4264-2 V V2.1	SP000231405	PG-VQFN-48-4	SLIC-S2 (DuSLIC®): Subscriber line interface circuit, enhanced feature set, -40°C to 85°C, tape & reel
▼ PEB 4264-2 T V2.1	SP000231490	PG-DSO-20-5	
▼ PEF 4365 T V2.1	SP000099015	PG-DSO-36-15	TSLIC-E (DuSLIC®): Twin subscriber line interface circuit, enhanced feature set, -40°C to 85°C, tape & reel
PEB 4364 T V1.2	SP000007727	P-DSO-36-15	TSLIC-S (DuSLIC®): Twin subscriber line interface circuit, standard feature set, 0°C to 85°C, tube
PEB 4364 T V1.2	SP000007728	P-DSO-36-15	TSLIC-S (DuSLIC®): Twin subscriber line interface circuit, standard feature set, 0°C to 85°C, tape & reel
▼ PEB 4262 V V1.1	SP000008052	PG-VQFN-48-4	SLIC-LCP (DuSLIC®): Subscriber line interface circuit, for US market, 0°C to 85°C, tape & reel
▼ PEB 3268 F V1.1	SP000089806	PG-TQFP-100-9	DuSLIC®-SP: Dual channel subscriber line interface circuit in a single package, 0°C to 85°C, tray
EASY 3265	SP000008002	—	DuSLIC®: Tool package for DuSLIC® family. Tool package includes: 1 x SMART 3265 + 1 x SMART 4265 + 1 x SMART 2000
SMART 3265	SP000007987	—	DuSLIC®: Evaluation board for DuSLIC® family. Evaluation board includes: 1 x SMART 3265 + 1 x SMART 4265
EASY 2466	SP000055577	—	SICOFI® + FlexiSLIC™: Tool package for SICOFI® + FlexiSLIC™ family: Tool package includes: 1 x SMART 2466 + 2 x SMART 386x + 1 x SMART 2000
▼ SMART 4262	SP000008102	—	SLIC-LCP (DuSLIC®): Evaluation board for PEB 4262
SMART 4265 P-VQFN-48	SP000007989	—	SLIC-E/SLIC-P/SLIC-S (DuSLIC®): Evaluation board for PEF 4265 or PEB 4266 or PEB 4264. PEF 4265 soldered on board
SMART 4265 P-DSO-20	SP000007988	—	
SMART 4268	SP000008156	—	SLIC-DC (DuSLIC®): Evaluation board for PEB 4268
SMART 4365 P-DSO-36	SP000007990	—	TSLIC-E/TSLIC-S (DuSLIC®): Evaluation board for PEB 4365 and PEB 4364. PEF 4365 soldered on board
▼ EASY 3268	SP000204383	—	DuSLIC®-SP: Tool package for PEB 3268. Tool package includes: 1 x SMART 3268 + 1 x SMART 2000
▼ SMART 3268	SP000204343	—	DuSLIC®-SP: Evaluation board for PEB 3268. Evaluation board includes: 1 x SMART 3268

SMD = Surface Mounted Device

Type	Ordering Code	Package	Description
<b>Wired Communication Voice Access</b>			
<b>ISDN S/T and U<sub>pn</sub> Transceiver</b>			
PEB 3081 F V1.4	SP000007636	PG-TQFP-48-1	SBCX-X: Full duplex 2B + D S/T interface transceiver according to ITU-T I.430, tape & reel
PEB 3081 H V1.4	SP000007583	PG-MQFP-44-1	
PEB 3081 F V1.4	SP000007637	PG-TQFP-48-1	SBCX-X: Full duplex 2B + D S/T interface transceiver according to ITU-T I.430, tray
▼ PEB 3081 H V1.4	SP000007584	PG-MQFP-44-1	
PEB 3086 F V1.4	SP000007571	PG-TQFP-64-1	ISAC <sup>®</sup> -SX: Full duplex 2B + D S/T interface transceiver according to ITU-T I.430 with one D-channel HDLC controller and one B-channel HDLC controller with reduced functionality, tray
PEB 3086 H V1.4	SP000007567	PG-MQFP-44-1	
PEB 3086 F V1.4	SP000007572	PG-TQFP-64-1	ISAC <sup>®</sup> -SX: Full duplex 2B + D S/T interface transceiver according to ITU-T I.430 with one D-channel HDLC controller and one B-channel HDLC controller with reduced functionality, tape & reel
PEB 3086 H V1.4	SP000007569	PG-MQFP-44-1	
PSB 3186 F V1.4	SP000007585	PG-TQFP-64-1	ISAC <sup>®</sup> -SX-TE: ISDN subscriber access controller for terminals, full duplex 2B + D S/T interface transceiver according to ITU-T I.430, tray
PSB 3186 H V1.4	SP000007610	PG-MQFP-44-1	
▼ PSB 3186 F V1.4	SP000007586	PG-TQFP-64-1	ISAC <sup>®</sup> -SX-TE: ISDN subscriber access controller for terminals, full duplex 2B + D S/T interface transceiver according to ITU-T I.430, tape & reel
PSB 21150 F V1.4	SP000007575	PG-TQFP-64-1	IPAC-X: ISDN PC adapter circuit extended, full duplex 2B + D S/T interface transceiver according to ITU-T I.430, tray
PSB 21150 H V1.4	SP000007578	PG-MQFP-64-1	
▼ PSB 21150 F V1.4	SP000007577	PG-TQFP-64-1	IPAC-X: ISDN PC adapter circuit extended, full duplex 2B + D S/T interface transceiver according to ITU-T I.430, tape & reel
PSF 21150 F V1.4	SP000007576	PG-TQFP-64-1	IPAC-X: ISDN PC adapter circuit extended, full duplex 2B + D S/T interface transceiver according to ITU-T I.430, -40°C to 85°C, tray
PEB 20590 H V2.2	SP000007249	PG-MQFP-80-1	VIP: Versatile ISDN port. Eight ISDN interfaces with up to four S/T and four U <sub>pn</sub> or eight U <sub>pn</sub> interfaces, large packing unit 504 pcs, tray (only available with DELIC-LC/-PB)
PEB 20590 H V2.2	SP000007251	PG-MQFP-80-1	VIP: Versatile ISDN port. Eight ISDN interfaces with up to four S/T and four U <sub>pn</sub> or eight U <sub>pn</sub> interfaces, large packing unit 84 pcs, tray (only available with DELIC-LC/-PB)
PEB 20591 H V2.2	SP000007600	PG-MQFP-80-1	VIP-8: Versatile ISDN port. Eight ISDN interfaces with up to eight S/T or eight U <sub>pn</sub> interfaces, tray (only available with DELIC-LC/-PB)
▼ PEB 20591 H V2.2	SP000240128	PG-MQFP-80-1	VIP-8: Versatile ISDN port. Eight ISDN interfaces with up to eight S/T or eight U <sub>pn</sub> interfaces, tape & reel (only available with DELIC-LC/-PB)
SMART 3081	on request	—	SBCX-X: Evaluation board for the PEB 3081. Additional tool: SMART 2000
SMART 3086	SP000007986	—	ISAC <sup>®</sup> -SX, ISAC <sup>®</sup> -SX TE: Evaluation board for the PEB 3086 and PSB 3186. Additional tool: SMART 2000
SMART 21150	SP000007975	—	IPAC-X: Evaluation board for the PSB 21150. Additional tool: SMART 2000
SMART 2057	SP000007973	—	VIP: Evaluation board for PEB 20570 / PEB/PEF 20571 and PEB 20590 (evaluation board includes: DELIC-PB + VIP). Additional tool: SMART 2000
SMART 2000 MAINBOARD	SP000007972	—	SMART 2000: Mainboard

SMD = Surface Mounted Device

Type	Ordering Code	Package	Description
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**Wired Communication Voice Access**

**ISDN PBX Controller**

PEB 20570 F V3.1	SP000007243	PG-TQFP-100-1	DELIC-LC: Line card controller, supporting up to three VIP/VIP-8 (24 ISDN channels), large packing unit 90 pcs, tray
▼ PEB 20570 F V1.3	SP000007242	PG-TQFP-100-1	DELIC-LC: Line card controller, supporting up to three VIP/VIP-8 (24 ISDN channels), large packing unit 540 pcs, tray
PEB 20571 F V3.1	SP000007541	PG-TQFP-100-1	DELIC-PB: PBX controller with integrated DSP, supporting up to three VIP/VIP-8 (24 ISDN channels), large packing unit 1400 pcs, tape & reel
PEB 20571 F V3.1	SP000007540	PG-TQFP-100-1	DELIC-PB: PBX controller with integrated DSP, supporting up to three VIP/VIP-8 (24 ISDN channels), large packing unit 90 pcs, tray
▼ PEB 20571 F V3.1	SP000007539	PG-TQFP-100-1	DELIC-PB: PBX controller with integrated DSP, supporting up to three VIP/VIP-8 (24 ISDN channels), large packing unit 540 pcs, tray
PEF 20571 F V3.1	SP000008000	PG-TQFP-100-1	DELIC-PB: PBX controller with integrated DSP, supporting up to three VIP/VIP-8 (24 ISDN channels), -40°C to 85°C, tray
SMART 2057	SP000007973	—	DELIC-PB/-LC: Evaluation board for PEB 20570/ PEB/PEF 20571 and PEB 20590 (evaluation board includes: DELIC-PB + VIP). Additional tool: SMART 2000
SMART 2000 MAINBOARD	SP000007972	—	SMART 2000: Mainboard

**ISDN Echo Cancellation Circuit**

PEF 24902 H V2.1	SP000007489	PG-MQFP-64-1	AFE: 4-channel ISDN echocancellation circuit for 4B3T / 2B1Q line code, -40°C to 85°C, large packing unit 504 pcs, (only available as chipset IEC4-T/Q), tray
PEF 24902 H V2.1	SP000007490	PG-MQFP-64-1	AFE: 4-channel ISDN echocancellation circuit for 4B3T / 2B1Q line code, -40°C to 85°C, large packing unit 84 pcs, (only available as chipset IEC4-T/Q), tray
PEF 24902 H V2.1	SP000007491	PG-MQFP-64-1	AFE: 4-channel ISDN echocancellation circuit for 4B3T / 2B1Q line code, -40°C to 85°C, (only available as chipset IEC4-T/Q), tape & reel
▼ PEB 24902 H V2.1	SP000007347	PG-MQFP-64-1	AFE: 4-channel ISDN echocancellation circuit for 4B3T / 2B1Q line code, 0°C to 85°C, large packing unit 504 pcs, (only available as chipset IEC4-T/Q), tray
PEB 24902 H V2.1	SP000007348	PG-MQFP-64-1	AFE: 4-channel ISDN echocancellation circuit for 4B3T / 2B1Q line code, 0°C to 85°C, large packing unit 84 pcs, (only available as chipset IEC4-T/Q), tray
PEB 24902 H V2.1	SP000007349	PG-MQFP-64-1	AFE: 4-channel ISDN echocancellation circuit for 4B3T / 2B1Q line code, 0°C to 85°C, (only available as chipset IEC4-T/Q), tape & reel
PEF 24901 H V2.2	SP000007535	PG-MQFP-64-1	DFE-T: 4-channel ISDN echocancellation circuit for 4B3T line code, -40°C to 85°C, (only available as chipset IEC4-T), tray
▼ PEF 24901 H V2.2	SP000007536	PG-MQFP-64-1	DFE-T: 4-channel ISDN echocancellation circuit for 4B3T line code, -40°C to 85°C, (only available as chipset IEC4-T), tape & reel
PEF 24911 H V2.2	SP000008078	PG-MQFP-64-1	DFE-Q: 4-channel ISDN echocancellation circuit for 2B1Q line code, -40°C to 85°C, (only available as chipset IEC4-Q), tray
▼ PEF 24911 H V2.2	SP000008079	PG-MQFP-64-1	DFE-Q: 4-channel ISDN echocancellation circuit for 2B1Q line code, -40°C to 85°C, (only available as chipset IEC4-Q), tape & reel
▼ SMART 24901	on request	—	IEC4-T (PEB/PEF 24902 + 24901): Evaluation board for IEC4-T, Europe version, 4B3T line coding (evaluation board includes: Quad AFE + DFE-T + ELIC + IHPC). Additional tool: SMART 2000
▼ SMART 24911	on request	—	IEC4-Q (PEB/PEF 24902 + 24911): Evaluation board for IEC4-Q chipset, USA/Japan version, 2B1Q line coding (evaluation board includes: Quad AFE + DFE-Q + ELIC + IHPC). Additional tool: SMART 2000
SMART 2000 MAINBOARD	SP000007972	—	SMART 2000: Mainboard

SMD = Surface Mounted Device

Type	Ordering Code	Package	Description
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**Wired Communication Voice Access**

**ISDN/SHDSL Power Controller**

▼ PEF 2026 T-S V1.1	SP000007176	PG-DSO-20-6	IHPC: Single ISDN /SHDSL high voltage power controller, -40°C to 85°C, tube
▼ PEF 2026 T-S V1.1	SP000007178	PG-DSO-20-6	IHPC: Single ISDN/SHDSL high voltage power controller, -40°C to 85°C, tape & reel
PEF 2026 T-P V1.1	SP000007174	P-DSO-20-6	IHPC: Single ISDN/SHDSL high voltage power controller, -40°C to 85°C, tube
▼ PEB 2026 T-S V1.1	SP000007175	PG-DSO-20-6	IHPC: Single ISDN/SHDSL high voltage power controller, 0°C to 85°C, tube
PEB 2026 T-S V1.1	SP000007177	P-DSO-20-6	IHPC: Single ISDN/SHDSL high voltage power controller, 0°C to 85°C, tape & reel
PEB 2026 T-P V1.1	SP000007173	P-DSO-20-6	IHPC: Single ISDN/SHDSL high voltage power controller, 0°C to 85°C, tape & reel
▼ PEB 2026 T-P V1.1	SP000007172	P-DSO-20-6	IHPC: Single ISDN/SHDSL high voltage power controller, 0°C to 85°C, large packing unit 155 pcs, tube
▼ PEB 2026 T-P V1.1	SP000007171	P-DSO-20-6	IHPC: Single ISDN/SHDSL high voltage power controller, 0°C to 85°C, large packing unit 1240 pcs, tube
▼ PEF 2426 H V1.1 GD	SP000007499	PG-MQFP-44-1	QIHPC: Quad ISDN/SHDSL high voltage power controller, tape & reel
▼ PEF 2426 H V1.1 D	SP000007497	PG-MQFP-44-1	QIHPC: Quad ISDN/SHDSL high voltage power controller, tray
▼ SMART 2426 USA/JPN	on request	—	QIHPC: Evaluation board for PEF 2426, USA/Japan version, 2B1Q line coding (evaluation board includes: Quad AFE + DFE-T + ELIC + IHPC). Additional tool: SMART 2000
▼ SMART 2426 EURO	on request	—	QIHPC: Evaluation board for PEF 2426, Europe version, 4B3T line coding (evaluation board includes: Quad AFE + DFE-Q + ELIC + IHPC). Additional tool: SMART 2000
SMART 2000 MAINBOARD	SP000007972	—	SMART 2000: Mainboard

**PCM Interface Controller**

▼ PEF 2054 N V2.1	SP000075438	PG-LCC-44-1	EPIC <sup>®</sup> -S: Extended PCM interface controller (16 ISDN or 32 analog subscribers), tape & reel
PEF 2054 N V2.1	SP000007790	P-LCC-44-1	
▼ PEF 2054 N V2.1	SP000057916	PG-LCC-44-1	EPIC <sup>®</sup> -S: Extended PCM interface controller (16 ISDN or 32 analog subscribers), tube
▼ PEF 2055 N V2.1	SP000075706	PG-LCC-44-1	EPIC <sup>®</sup> -1: Extended PCM interface controller (32 ISDN or 64 analog subscribers), tube
PEF 2055 N V2.1	SP000007791	P-LCC-44-1	
▼ PEF 2055 N V2.1	SP000075707	PG-LCC-44-1	EPIC <sup>®</sup> -1: Extended PCM interface controller (32 ISDN or 64 analog subscribers), tape & reel
PEF 20550 H V2.1	SP000007795	PG-MQFP-80-1	ELIC <sup>®</sup> : Extended line card interface controller (32 ISDN or 64 analog subscribers), tape & reel
PEF 20550 H V2.1	SP000007794	P-MQFP-80-1	ELIC <sup>®</sup> : Extended line card interface controller (32 ISDN or 64 analog subscribers), large packing unit 84 pcs, tray
▼ PEF 20550 H V2.1	SP000007793	PG-MQFP-80-1	ELIC <sup>®</sup> : Extended line card interface controller (32 ISDN or 64 analog subscribers), large packing unit 504 pcs, tray
▼ SMART 24901	on request	—	ELIC <sup>®</sup> : Evaluation board for PEF 20550, Europe version, 4B3T line coding (evaluation board includes: Quad AFE + DFE-T + ELIC + IHPC). Additional tool: SMART 2000
▼ SMART 24911	on request	—	ELIC <sup>®</sup> : Evaluation board for PEF 20550, USA/Japan version, 2B1Q line coding (evaluation board includes: Quad AFE + DFE-Q + ELIC + IHPC). Additional tool: SMART 2000

SMD = Surface Mounted Device



Type	Ordering Code	Package	Description
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**Wired Communication Voice Access**

**ISDN Network Termination Controller (NT1, iNT)**

PEF 80902 H V1.1	SP000007563	PG-MQFP-44-2	T-SMINT <sup>®</sup> -O: 4B3T second generation modular ISDN NT (ordinary), tape & reel
PEF 80902 H V1.1	SP000007562	PG-MQFP-44-2	T-SMINT <sup>®</sup> -O: 4B3T second generation modular ISDN NT (ordinary), tray
PEF 82902 F V1.1	SP000007565	PG-TQFP-64-1	T-SMINT <sup>®</sup> -I: 4B3T second generation modular ISDN NT (intelligent), tray
▼ PEF 82902 F V1.1	SP000007566	PG-TQFP-64-1	T-SMINT <sup>®</sup> -I: 4B3T second generation modular ISDN NT (intelligent), tape & reel
▼ PEF 81902 F V1.1	SP000007564	PG-TQFP-64-1	T-SMINT <sup>®</sup> -IX: 4B3T second generation modular ISDN NT (intelligent extended), tray
PEF 80912 H V1.4	SP000007554	PG-MQFP-44-2	Q-SMINT <sup>®</sup> -O: 2B1Q second generation modular ISDN NT (ordinary), large packing unit 96 pcs, tray
▼ PEF 80912 H V1.4	SP000007553	PG-MQFP-44-2	Q-SMINT <sup>®</sup> -O: 2B1Q second generation modular ISDN NT (ordinary), large packing unit 576 pcs, tray
▼ PEF 80912 H V1.4	SP000007555	PG-MQFP-44-2	Q-SMINT <sup>®</sup> -O: 2B1Q second generation modular ISDN NT (ordinary), tape & reel
PEF 82912 F V1.4	SP000007558	PG-TQFP-64-1	Q-SMINT <sup>®</sup> -I: 2B1Q second generation modular ISDN NT (intelligent), tray
▼ PEF 82912 F V1.4	SP000007559	PG-TQFP-64-1	Q-SMINT <sup>®</sup> -I: 2B1Q second generation modular ISDN NT (intelligent), tape & reel
SIP 80912	SP000007970	—	Q-SMINT <sup>®</sup> -O: Evaluation board for PEF 80912
▼ SIP 82912	on request	—	Q-SMINT <sup>®</sup> -I: Evaluation board for PEF 82912

**16-Bit Microcontroller for ISDN**

SAF C161U-LF V1.3	SP000007502	PG-TQFP-100-1	C161U: 16-bit microcontroller with USB, tray
SAF C165H-LF V1.3	SP000007668	P-TQFP-144-2	C165U: 16-bit microcontroller with HDLC and IOM <sup>®</sup> -2, large packing unit 60 pcs, tray
▼ SAF C165H-LF V1.3	SP000007667	PG-TQFP-144-2	C165U: 16-bit microcontroller with HDLC and IOM <sup>®</sup> -2, large packing unit 360 pcs, tray
▼ SAF C165H-LF V1.3	SP000007669	PG-TQFP-144-2	C165H: 16-bit microcontroller with HDLC and IOM <sup>®</sup> -2, tape & reel
SAF C165UTAH-LF V1.3	SP000007475	PG-TQFP-144-2	UTAH: 16-bit microcontroller with USB, HDLC and IOM <sup>®</sup> -2, large packing unit 60 pcs, tray
▼ SAF C165UTAH-LF V1.3	SP000007474	PG-TQFP-144-2	UTAH: 16-bit microcontroller with USB, HDLC and IOM <sup>®</sup> -2, large packing unit 360 pcs, tray
SAF C165UTAH-LF V1.3	SP000007476	PG-TQFP-144-2	UTAH: 16-bit microcontroller with USB, HDLC and IOM <sup>®</sup> -2, tape & reel
EASY C161U	SP000007940	—	C161U: Evaluation board for SAF-C161U
EASY UTAH	SP000007941	—	UTAH: Evaluation board for SAF-C165UTAH/SAF-C165H

**VoIP Terminals**

▼ PSB 21553 E V1.4-G	SP000017644	PG-LBGA-324-3	INCA <sup>®</sup> -IPs: Single-chip IP-phone solution with integrated 3-port ethernet switch, tape & reel
▼ PSB 21553 E V1.4-G	SP000056178	PG-LBGA-324-3	INCA <sup>®</sup> -IPs: Single-chip IP-phone solution with integrated 3-port ethernet switch, tray
▼ PSB 21521 E V1.4-G	SP000007840	PG-LBGA-324-3	INCA <sup>®</sup> -IPc: Single-chip IP-phone solution with single 10/100BaseT ethernet port, tape & reel
▼ PSB 21521 E V1.4-G	SP000226522	PG-LBGA-324-3	INCA <sup>®</sup> -IPc: Single-chip IP-phone solution with single 10/100BaseT ethernet port, tray
▼ EASY 21553	SP000007917	—	INCA <sup>®</sup> -IP: Evaluation board for PSB 21553

SMD = Surface Mounted Device

Type	Ordering Code	Package	Description
<b>Wired Communication Voice Access</b>			
<b>ISDN Terminals</b>			
PSB 21382 H V1.3	SP000007373	PG-MQFP-64-1	SCOUT™-S: Siemens codec with S/T transceiver, tray
PSB 21383 H V1.3	SP000007532	PG-MQFP-44-1	SCOUT™-SX: Siemens codec with S/T transceiver featuring speakerphone functionality, tape & reel
▼ PSB 21383 H V1.3	SP000007531	PG-MQFP-44-1	SCOUT™-SX: Siemens codec with S/T transceiver featuring speakerphone functionality, large packing unit 96 pcs, tray
▼ PSB 21383 H V1.3	SP000007530	PG-MQFP-44-1	SCOUT™-SX: Siemens codec with S/T transceiver featuring speakerphone functionality, large packing unit 576 pcs, tray
PSB 21384 H V1.3	SP000007374	PG-MQFP-64-1	SCOUT™-SX: Siemens codec with S/T transceiver featuring speakerphone functionality, tray
▼ PSB 21384 H V1.3	SP000007375	PG-MQFP-64-1	SCOUT™-SX: Siemens codec with S/T transceiver featuring speakerphone functionality, tape & reel
PSB 21373 H V1.1	SP000007602	PG-MQFP-44-1	SCOUT™-DX: Siemens codec with 2-wire data transceiver featuring speakerphone function, tape & reel
PSB 21391 H V1.3	SP000007376	PG-MQFP-44-1	SCOUT™-P: Siemens codec with U <sub>PN</sub> transceiver, tray
▼ PSB 21391 H V1.3	SP000007377	PG-MQFP-44-1	SCOUT™-P: Siemens codec with U <sub>PN</sub> transceiver, tape & reel
PSB 21393 H V1.3	SP000007533	PG-MQFP-44-1	SCOUT™-PX: Siemens codec with U <sub>PN</sub> transceiver featuring speakerphone functionality, tray
PSB 21393 H V1.3	SP000007534	PG-MQFP-44-1	SCOUT™-PX: Siemens codec with U <sub>PN</sub> transceiver featuring speakerphone functionality, tape & reel
▼ PSB 21493 H V1.7	SP000007996	P-MQFP-144-1	INCA®-P: Infineon codec with U <sub>PN</sub> transceiver and embedded microcontroller featuring acoustic echo cancellation, tape & reel
▼ PSB 21493 H V1.7	SP000103945	P-MQFP-144-1	INCA®-P: Infineon codec with U <sub>PN</sub> transceiver and embedded microcontroller featuring acoustic echo cancellation, tray
PSB 21483 F V1.7	SP000007699	PG-TQFP-144-1	INCA®-S: Infineon codec with S/T transceiver and embedded microcontroller featuring acoustic echo cancellation, tray
▼ PSB 21473 F V1.3	SP000007701	PG-TQFP-144-1	INCA®-D: Infineon codec with DASL transceiver and embedded microcontroller featuring acoustic echo cancellation, tape & reel
▼ PSB 21473 F V1.3	SP000007700	PG-TQFP-144-1	INCA®-D: Infineon codec with DASL transceiver and embedded microcontroller featuring acoustic echo cancellation, tray
SMART 21384	SP000007976	—	SCOUT™-S/-SX: Evaluation board for PSB 21382/84. Additional tool: SMART 2000
▼ SMART 21383	on request	—	SCOUT™-SX: Evaluation board for PSB 21383. Additional tool: SMART 2000
SMART 21393 EURO	SP000007977	—	SCOUT™-P/-PX: Evaluation board for PSB 21391/93 Europe version. Additional tool: SMART 2000
▼ SMART 21393 USA	on request	—	SCOUT™-P/-PX: Evaluation board for PSB 21391/93 USA version. Additional tool: SMART 2000
SIPB 21493	SP000007967	—	INCA®-P: Evaluation board for 21493
▼ SIPB 21483	on request	—	INCA®-S: Evaluation board for PSB 21483
▼ SIPB 21486	on request	—	INCA®-P; INCA®-S: Acoustic box (20 Ohm) for PSB 21493 and PSB 21483
SMART 2000 MAINBOARD	SP000007972	—	SMART 2000: Mainboard

SMD = Surface Mounted Device

Type	Ordering Code	Package	Description
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**Wired Communication Broadband CPE**

**Network Processor**

ADM 5120 X AB T2-G	SP000078983	PG-BGA-324-1	Network Processor: System-on-chip home gateway controller, USB 1.1, PCI, 5TP+GMII, tray
ADM 5120 PX AB T2	SP000081012	PG-FQFP-208-9	Network Processor: System-on-chip home gateway controller, USB 1.1, 5TP+MII, tray
EASY 5120-RT	SP000017922	—	Network Processor: Evaluation board for ADM5120 (X) (Wireless VoIP router reference package)
EASY 5120-WVOIP RT	SP000017943	—	Network Processor: Evaluation board for ADM5120 (X) (2-channel ATA VoIP router reference package)

**Wireless System On-Chip (SoC)**

▼ ADM 8668 FX A12-G	SP000208946	PG-BGA-352-1	Wildpass: Wireless network bridging system-on-chip, WLAN (WMAC+BBP), USB 2.0, 1TP+1MII
▼ ADM 8668 TX A12	SP000208947	PG-BGA-289-1	Wildpass: Wireless network bridging system-on-chip, WLAN (WMAC+BBP), USB 2.0, 1TP+1MII, PCI bridge, tray
▼ EASY 8668 F	SP000068129	—	Wildpass: Evaluation board for ADM 8668 F(X)

**Network Interface Card (NIC)**

AN 983 BX BG TV1	SP000075554	PG-MQFP-128-2	NIC: PCI to fast ethernet NIC controller, tray
▼ AN 983 BX BG TV3	SP000103413	PG-MQFP-128-2	
AN 983 BLX BG TV1	SP000076446	PG-LQFP-128-1	
▼ AN 983X AH T 21	SP000078897	PG-MQFP-128-2	
▼ AN 983X AH T 22	SP000078898	PG-MQFP-128-2	
▼ AN 985 BX BG TV1	SP000076447	PG-LQFP-128-1	NIC: Cardbus to fast ethernet NIC controller, tray
ADM 8511 X CC T1	SP000076521	PG-LQFP-100-1	NIC: USB 1.1 to fast ethernet NIC controller, tray
ADM 8513 X AD T1	SP000077769	PG-LQFP-48-1	NIC: USB 1.1 to fast ethernet NIC controller, tray
▼ ADM 8515X AC T1	SP000064377	PG-LQFP-100-1	NIC: USB 2.0 to ethernet NIC controller, tray
▼ EASY 7001 NIC	SP000018110	—	NIC: Evaluation board for AN 983 B(X) (including ADM 7001)
▼ EASY 8511	SP000067472	—	NIC: Evaluation board for ADM 8511 (X)
EASY 8515	SP000017920	—	NIC: Evaluation board for ADM 8515 (X)

**Switch/Phy**

ADM 6992 X AD T1	SP000076445	PG-MQFP-128-2	Ninja: Fiber-to-fast ethernet converter, tray
▼ ADM 6992 SX AB T1	SP000223283	PG-TQFP-64-4	
▼ ADM 6992 CX AB T1	SP000076431	PG-TQFP-64-4	Ninja: Two port fiber-to-fast ethernet converter bridge, tray
▼ ADM 6992 FX AB T1	SP000077768	PG-MQFP-128-2	Ninja: Fiber-to-fast ethernet converter with OAM engine for TS-1000 protocol conversion, tray
▼ ADM 6992 KX AB T1	SP000076432	PG-TQFP-64-4	
▼ EASY 6992 C	SP000017946	—	Ninja: Evaluation board for ADM 6992 C(X)
EASY 6992 F	SP000017947	—	Ninja: Evaluation board for ADM 6992 F(X)
EASY 6992 K	SP000017944	—	Ninja: Evaluation board for ADM 6992 K(X)
▼ ADM 6993 X AD T1	SP000076438	PG-MQFP-128-2	Ninja: Fiber-to-fast ethernet converter with integrated three port L2 switch, tray
▼ ADM 6993 FX AD T1	SP000016437	PG-MQFP-128-2	Ninja: Fiber-to-fast-ethernet converter with integrated three port L2 switch, OAM engine for TS-1000 protocol conversion, tray
▼ EASY 6993 F	SP000017919	—	Ninja: Evaluation board for ADM 6993 F(X)
▼ ADM 6995 LCX AD T1	SP000219864	PG-MQFP-128-2	Samurai: Five port L2 ethernet switch controller, 5TP, MDC/MDIO, tray
▼ ADM 6996 FCX AD T1	SP000219863	PG-MQFP-128-2	Samurai: Six port L2 ethernet switch controller, 4TP+2MII, MDC/MDIO, tray
▼ ADM 6996 FCX AD R1	SP000229744	PG-MQFP-128-2	Samurai: Six port L2 ethernet switch controller, 4TP+2MII, MDC/MDIO, tape & reel
▼ ADM 6996 IX AD T1	SP000219861	PG-MQFP-128-2	Samurai: Six port L2 ethernet switch controller, 5TP+1MII, extra function on IGMP, QOS, tray

SMD = Surface Mounted Device

Type	Ordering Code	Package	Description
<b>Wired Communication Broadband CPE</b>			
<b>Switch/Phy</b> (cont'd)			
▼ ADM 6996 LCX AD R1	SP000228446	PG-MQFP-128-2	Samurai: Six port L2 ethernet switch controller, 5TP+1MII, tape & reel
▼ ADM 6996 LCX AD T1	SP000219862	PG-MQFP-128-2	Samurai: Six port L2 ethernet switch controller, 5TP+1MII, MDC/MDIO, tray
▼ ADM 6996 MX AD T1	SP000210310	PG-MQFP-128-2	Samurai: Six port L2 ethernet switch controller, 4TP+2MII, MDC/MDIO, extra function on IGMP, QOS, tray
▼ ADM 6996 HX AD T1	SP000220561	PG-MQFP-128-2	Samurai: Six port L2 ethernet switch controller, 4TP+1MII+1HDLC, MDC/MDIO, extra function on IGMP, QOS, tray
EASY 6996 FC	SP000062347	—	Samurai: Evaluation board for ADM 6996 FC(X)
▼ EASY 6996 I	SP000062345	—	Samurai: Evaluation board for ADM 6996 I(X)
EASY 6996 I CPU	SP000084733	—	Samurai: Evaluation board for ADM 6996 I(X) with CPU
EASY 6996 LC	SP000062346	—	Samurai: Evaluation board for ADM 6996 LC(X)
EASY 6996 M	SP000062344	—	Samurai: Evaluation board for ADM 6996 M(X)
▼ EASY 6996 M CPU	SP000084732	—	Samurai: Evaluation board for ADM 6996 M(X) with CPU
ADM 6999 X A2 T1	SP000076443	PG-MQFP-128-2	Switch: Nine-port L2 ethernet switch controller, 8TP+1MII, tray
▼ ADM 6999 GX A2 T1	SP000076440	PG-MQFP-128-2	Switch: Nine-port L2 switch controller, 8TP+1GMII, tray
▼ ADM 6999 UX A2 T1	SP000076439	PG-MQFP-128-2	Switch: Nine-port L2 ethernet switch controller, 8TP+1.6GMII, tray
EASY 6999	SP000018106	—	Switch: Evaluation board for ADM 6999 (X)
EASY 6999 U	SP000018108	—	Switch: Evaluation board for ADM 6999 U(X)
▼ EASY 6999 G	SP000018107	—	Switch: Evaluation board for ADM 6999 G(X)
ADM 7001 X AC T1	SP000076255	PG-LQFP-48-1	Phy: One-port 10/100Mbit/s phy, tray
▼ ADM 7001 X AC R1	SP000083260	PG-LQFP-48-1	Phy: One-port 10/100Mbit/s phy, tape & reel
EASY 7001 MII	SP000018109	—	Phy: Evaluation board for ADM 7001 (X)

SMD = Surface Mounted Device

Type	Ordering Code	Package	Description
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**Wireless Communication**

**WLAN**

▼ ADM 8262 X AC T1	SP000208914	PG-LQFP-128-1	Wildcard G: Wireless Lan 802.11a/b/g MAC + BBP single chip controller with PCI, mini-PCI and Cardbus interface, tray
▼ ADM 8266 A21	SP000098969	PG-LQFP-128-1	Wildcard USB: 802.11a/b/g MAC + BBP single chip WiFi Controller with USB interface, tray
▼ ADM 8266M A21	SP000098970	PG-LQFP-128-1	
▼ PEF 8820 V	SP000054913	PG-VQFN-48-1	Lucky Warp: 802.11 a/b/g RF transceiver, tape & reel
EASY 8262 MINI PCI	SP000018113	—	Wildcard G: Evaluation board for ADM 8262
EASY 8262 CARDBUS	SP000018111	—	
▼ EASY 8266 USB	SP000054643	—	Wildcard USB: Evaluation board for ADM 8266 (Dongle)
▼ EASY 8266 COMBO	on request	—	Wildcard G: Evaluation board for ADM 8266 (memory stick combo)

**Bluetooth®**

◆▼ PMB 8761 G V3.29	SP000095537	PG-VQFN-48-1	BlueMoon Single Cellular: Bluetooth® 1.2 HCI single chip, tape & reel
◆▼ PMB 8753 J V2.07	SP000226865	PG-WFSGA-65	BlueMoon Single Cellular: CF-Card for PMB 8761 (BlueMoon Single Cellular), tape & reel
◆▼ PMB 8753 A V2.07	SP000226864	PG-WFSGA-65	
◆▼ PBA 31307/1R2A	SP000009862	L-MLGA-72	Single Stone Module: Bluetooth® 1.2 HCI based module, tape & reel
◆▼ PBA 31308	SP000209746	P-MODUL-1	Uni Stone Module: Bluetooth® 2.0 HCI based module with Enhanced Data Rate (EDR), tape & reel
◆▼ BlueMoon Single Cellular Kit	on request	—	BlueMoon Single Cellular: Evaluation board for PMB 8761 Evaluation kit includes: 2 x mainboard and 2 x card
◆▼ BlueMoon Single Cellular CF-Card	on request	—	BlueMoon Single Cellular: CF-Card for PMB 8761
◆▼ BlueMoon Uni Cellular Kit	on request	—	BlueMoon Uni Cellular: Evaluation board for PMB 8761 Evaluation kit includes: 2 x mainboard and 2 x card
◆▼ BlueMoon Uni Cellular CF-Card	on request	—	BlueMoon Uni Cellular: CF-Card for PMB 8761
◆▼ BlueMoon Singlestone Cellular Kit	on request	—	Singlestone Module: Evaluation board for PBA 31307 Evaluation kit includes: 2 x mainboard and 2 x card
◆▼ BlueMoon Singlestone Cellular CF-Card	on request	—	Singlestone Module: CF-Card for PBA 31307
◆▼ BlueMoon Unistone Cellular Kit	on request	—	Unistone Module: Evaluation board for PBA 31308 Evaluation kit includes: 2 x mainboard and 2 x card
◆▼ BlueMoon Unistone Cellular CF-Card	on request	—	Unistone Module: CF-Card for PBA 31308

**Digital Cordless Telephony (DECT)**

PMB 6818 R V1.1	SP000008828	PG-TSSOP-10-1	Dec: Power amplifier, tape & reel
PMB 6819 R V1.1	SP000008753	PG-TSSOP-10-1	Dec: 2 V power amplifier, tape & reel
▼ PMB 6610 R V2.1W	SP000055958	PG-TSSOP-38-1	Dec: Low-IF transceiver for DECT, tape & reel
PMB 6610 R V2.1A	SP000106609	P-TSSOP-38-1	
▼ PMB 7610 R V1.1	SP000008752	PG-TSSOP-38-1	Dec: Transceiver with improved density, tape & reel
▼ PMB 6723 F V1.4 FL	SP000008714	PG-TQFP-100-1	Dec: Handset controller with handsfree capability, tape & reel
▼ PMB 6723 F V1.423	SP000217504	PG-TQFP-100-1	
▼ PMB 7722 F V1.4 FL	SP000008975	PG-TQFP-100-1	Dec: Handset controller with walkie-talkie function, large packing unit 1400 pcs, tape & reel
▼ PMB 7722 F V1.4 FL	SP000008974	PG-TQFP-100-1	Dec: Handset controller with walkie-talkie function, large packing unit 1000 pcs, tape & reel
▼ PMB 5737 F V3.552 PCC	SP000008709	P-TQFP-144-1	Dec: Basestation controller with SMS functionality, tape & reel
▼ PMB 5737 F V3.5	SP000008707	P-TQFP-144-1	
▼ PMB 6725 XF V1.5 FL	SP000008732	PG-TQFP-100-1	Dec: Basestation controller with external ROM/RAM interface, tape & reel
▼ PMB 6725 XF V1.565	SP000008725	PG-TQFP-100-1	
PMB 6725 XF V1.592	SP000008731	P-TQFP-100-1	
▼ PMB 7725 XF V1.3 FL	SP000008907	PG-TQFP-100-1	Dec: Basestation controller with SMS functionality, tape & reel
▼ PMB 7725 H V1.3115	SP0000089006	P-MQFP-64-1	

SMD = Surface Mounted Device

Type	Ordering Code	Package	Description
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**Wireless Communication**

**2.4-GHz WDCT**

▼ PMB 4823 R V1.1	SP000008698	PG-TSSOP-10-1	Dect: WDCT power amplifier, tape & reel
▼ PMB 6823 R V1.1	SP000008815	PG-TSSOP-10-1	Dect: WDCT 2 V power amplifier, tape & reel
PMB 6618 R V2.1	SP000009044	PG-TSSOP-38-1	Dect: Low-IF transceiver for 2.4-GHz WDCT, tape & reel
▼ PMB 6724 F V1.4 FL	SP000008716	P-TQFP-100-1	Dect: WDCT Handset Controller, tape & reel
▼ PMB 7724 F V1.406	SP000079572	PG-TQFP-100-1	Dect: WDCT Handset Controller with walkie-talkie function, tape & reel
▼ PMB 7724 H V1.406	SP000016802	PG-MQFP-64-1	
▼ PMB 5736 U	SP000065010	P-TQFP-144-1	Dect: WDCT Basestation Controller with integrated answering machine, tape & reel
▼ PMB 6726 XF V1.5 FL	SP000008875	P-TQFP-100-1	Dect: WDCT Basestation Controller with external ROM-/RAM interface, tape & reel
▼ PMB 6726 XF V1.543	SP000008877	P-TQFP-100-1	
▼ PMB 7726 H V1.304	SP000008953	P-MQFP-64-1	Dect: WDCT Basestation Controller with increased memory size, tape & reel

**RF Power GOLDMOS®**

◆▼ PTF 040551E	SP000082501	H-30265-2-1	High power RF LDMOSFET, 55 W, 450-MHz to 500-MHz bandwidth, tray
◆▼ PTF 041501E V1.0	SP000064068	H-30260-2-1	High power RF LDMOSFET, 150 W, 450-MHz to 500-MHz bandwidth, tray
◆▼ PTF 080101M	SP000082763	PG-TSSOP-10-1	High power RF LDMOSFET, 10 W, 860-MHz to 960-MHz bandwidth, tape & reel
◆ PTF 080101S V1.0	SP000018181	H-32259-2-1	High power RF LDMOSFET, 10 W, 860-MHz to 960-MHz bandwidth, tray
◆ PTF 080901E V1.0	SP000009921	H-30248-2-1	High power RF LDMOSFET, 90 W, 860-MHz to 960-MHz bandwidth, tray
◆ PTF 080901F V1.0	SP000009922	H-31248-2-1	
◆ PTF 081301E V1.0	SP000017347	H-30248-2-1	High power RF LDMOSFET, 130 W, 860-MHz to 960-MHz bandwidth, tray
◆ PTF 082001E V1.0	SP000017756	H-30260-2-1	High power RF LDMOSFET, 200 W, 860-MHz to 960-MHz bandwidth, tray
◆▼ PTF 140451E V1.0	SP000102183	H-30265-2-1	High power RF LDMOSFET, 45 W, 1450-MHz to 1500-MHz bandwidth, tray
◆▼ PTF 141501E V1.0	SP000095458	H-30260-2-1	High power RF LDMOSFET, 150 W, 1450-MHz to 1500-MHz bandwidth, tray
◆▼ PTF 180101M V1.0	SP000076951	PG-TSSOP-10-1	High power RF LDMOSFET, 10 W, 1800-MHz to 1900-MHz bandwidth, tape & reel
◆ PTF 180101S V1.0	SP000009989	H-32259-2-1	
◆▼ PTF 180301E V1.0	SP000017754	H-30265-2-1	High power RF LDMOSFET, 30 W, 1800-MHz to 2000-MHz bandwidth, tray
◆ PTF 180901E V1.0	SP000009918	H-30248-2-1	High power RF LDMOSFET, 90 W, 1800-MHz to 2000-MHz bandwidth, tray
◆ PTF 180901F V1.0	SP000009917	H-31248-2-1	
◆ PTF 181301E V1.0	SP000017571	H-30260-2-1	High power RF LDMOSFET, 130 W, 1800-MHz to 2000-MHz bandwidth, tray
◆ PTF 191601E V1.0	SP000018182	H-30260-2-1	High power RF LDMOSFET, 160 W, 1800-MHz to 2000-MHz bandwidth, tray
◆▼ PTF 210101M V1.0	SP000076952	PG-TSSOP-10-1	High power RF LDMOSFET, 20 W, 2100-MHz to 2170-MHz bandwidth, tape & reel
◆ PTF 210301E V1.0	SP000009913	H-30265-2-1	High power RF LDMOSFET, 30 W, 2110-MHz to 2170-MHz bandwidth, tray

SMD = Surface Mounted Device

Type	Ordering Code	Package	Description
<b>Wireless Communication</b>			
<b>RF Power GOLDMOS®</b> (cont'd)			
◆ PTF 211301E V1.0	SP000017750	H-30260-2-1	High power RF LDMOSFET, 130 W, 2110-MHz to 2170-MHz bandwidth, tray
◆▼ PTF 240101S V1.0	SP000082764	H-32259-2-1	High power RF LDMOSFET, 10 W, 2400-MHz to 2500-MHz bandwidth, tray
◆▼ PTFA 043002E V1.0	SP000082722	H-30275-4-1	High power RF LDMOSFET, 300 W, 470-MHz to 860-MHz bandwidth, tray
◆▼ PTFA 191001E V1.0	SP000056796	H-30248-2-1	High power RF LDMOSFET, 100 W, 1930-MHz to 1990-MHz bandwidth, tray
◆▼ PTFA 210451E V1.0	SP000082505	H-30265-2-1	High power RF LDMOSFET, 45 W, 2110-MHz to 2170-MHz bandwidth, tray
◆▼ PTFA 210601E V1.0	SP000102489	H-30265-2-1	High power RF LDMOSFET, 60 W, 2110-MHz to 2170-MHz bandwidth, tray
◆▼ PTFA 211001E V1.0	SP000064069	H-30248-2-1	High power RF LDMOSFET, 100 W, 2110-MHz to 2170-MHz bandwidth, tray
◆▼ PTFA 211801E V1.0	SP000065496	H-30260-2-1	High power RF LDMOSFET, 180 W, 2110-MHz to 2170-MHz bandwidth, tray
◆▼ PTFA 211801F V1.0	SP000075700	H-31260-2-1	High power RF LDMOSFET, 180 W, 2110-MHz to 2170-MHz bandwidth, tray
◆▼ PTFA 212002E V1.0	SP000074111	H-30275-2-1	High power RF LDMOSFET, 220 W, 2110-MHz to 2170-MHz bandwidth, tray
◆▼ PTFA 240451E V1.0	SP000063673	H-30265-2-1	High power RF LDMOSFET, 45 W, 2400-MHz to 2500-MHz bandwidth, tray
◆▼ PTFA 241301E V1.0	SP000082766	H-30260-2-1	High power RF LDMOSFET, 130 W, 2400-MHz to 2500-MHz bandwidth, tray
◆▼ PTFA 260451E V1.0	SP000063672	H-30265-2-1	High power RF LDMOSFET, 45 W, 2620-MHz to 2680-MHz bandwidth, tray
◆▼ PTFA 261301E	SP000086852	H-30260-2-1	High power RF LDMOSFET, 130 W, 2620-MHz to 2680-MHz bandwidth, tray

**Tuner ICs**

TUA 6020	SP000012798	PG-TSSOP-28-1	Tuner: 2-band TV tuner mixer-oscillator-PLL with balanced IF-amplifier, for analog and stationary TV reception, tape & reel
TUA 6024-2	SP000012767	PG-TSSOP-28-1	
KTS 6027-2	SP000013185	PG-TSSOP-28-1	Tuner: 2-band TV tuner mixer-oscillator-PLL with unbalanced IF-amplifier, for analog TV reception, tape & reel
KTS 6029-2	SP000013186	PG-TSSOP-28-1	
▼ TUA 1030 DRYPACK	SP000013616	PG-TSSOP-24-1	Tuner: WDCT Basestation Controller, for analog TV reception, tape & reel
TUA 6030	SP000012954	PG-TSSOP-38-1	Tuner: 3-band RF Tuner for PAL/NTSC, DVB-C, ATSC and DOCSIS with MOPLL (mixer, oscillator and digitally programmable PLL), for analog and stationary TV reception, tape & reel
TUA 6034 T	SP000013610	PG-TSSOP-38-1	Taifun: Full 3-band RF tuner for PAL/NTSC, DVB-T, DVB-C, ISDB-T, ATSC and OPEN CABLE standard with MOPLL (mixer, oscillator and digitally programmable PLL), for stationary and portable TV reception, tape & reel
TUA 6034 V	SP000017969	PG-VQFN-48-1	
TUA 6036 T	SP000014627	PG-TSSOP-38-1	Taifun: Full 3-band RF tuner for PAL/NTSC, DVB-T, DVB-C, ISDB-T, ATSC and OPEN CABLE standard with MOPLL (mixer, oscillator and digitally programmable PLL), for stationary TV reception, tape & reel
TDA 6190 T GEG DRYPACK	SP000012811	PG-DSO-16-1	Tuner: Digital TV mixer for QAM or QFDM modulated signals, for stationary TV reception, tape & reel
TDA 6190 T GEG	SP000012810	PG-DSO-16-1	
TDA 6192 T DRYPACK	SP000013410	PG-TSSOP-16-1	Tuner: Direct IF sampling amplifier, for stationary and portable TV reception, tape & reel
TDA 6192 T	SP000013411	PG-TSSOP-16-1	
TDA 6192 V	SP000017968	PG-VQFN-20-3	
▼ TUA 6041	SP000018085	PG-VQFN-48-1	
▼ TUA 6045	SP000018086	PG-VQFN-48-1	Taifun 3: Full 3-band, low power RF tuner IC with integrated AGC amplifier, for portable TV reception, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Package	Description
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## Wireless Communication

### Tuner ICs (cont'd)

▼ KTS 6027-2 Evaboard	on request	—	Tuner: Evaluation board for KTS 6027-2
▼ KTS 6027-2 Ref Tuner	on request	—	Tuner: Reference tuner board with KTS 6027-2
▼ TDA 6190 T Evaboard	on request	—	Taifun: Evaluation board for TDA 6190 T
▼ TDA 6192 T Evaboard	on request	—	Taifun: Evaluation board for TDA 6192 T
▼ TUA 6020 Evaboard	on request	—	Tuner: Evaluation board for TUA 6020
▼ TUA 6024-2 Evaboard	on request	—	Tuner: Evaluation board for TUA 6024-2
▼ TUA 6030 Evaboard	on request	—	Tuner: Evaluation board for TUA 6030
▼ TUA 6034 + TDA 6190 T Low IF Half NIM	on request	—	Taifun: Low IF half NIM with TUA 6034 + TDA 6190 T
▼ TUA 60342 V Mini Half NIM	on request	—	Taifun: Mini half NIM board with TUA 6034 V
▼ TUA 6034 ATSC Reference NIM LGE Demod	on request	—	Taifun: Reference NIM board (ATSC) with LGE Demodulator with TUA 6034
▼ TUA 6034 ATSC Reference Tuner	on request	—	Taifun: Reference tuner board with TUA 6034
▼ TUA 6034 DVB-T Reference NIM Micronas Demod	on request	—	Taifun: Reference NIM (DVB-T) with Micronas Demodulator with TUA 6034
▼ TUA 6034 DVB-T Reference Tuner	on request	—	Taifun: Reference tuner board with TUA 6034
▼ TUA 6034 Evaboard	on request	—	Taifun: Evaluation board for TUA 6034
▼ TUA 6034 T+TDA 6192 T HALF NIM	on request	—	Taifun: Half NIM board with TUA 6034 T + TDA 6192 T
▼ TUA 6034 T ATSC Evaboard	on request	—	Taifun: Evaluation board (ISDB-T) for TUA 6045
▼ TUA 6034 T DVB Reference NIM Cad Data DVB-T with PNP PN2020	on request	—	Taifun: Reference NIM board (DVB-T) with TUA 6045
▼ TUA 6034 T ISDB-T Evaboard	on request	—	Taifun: Evaluation board (ISDB-T) for TUA 6034
▼ TUA 6034 T ISDB -T Reference Tuner	on request	—	Taifun: Reference tuner board (ISBD-T) with TUA 6034
▼ TUA 6034 V Evaboard	on request	—	Taifun: Evaluation board for TUA 6034 V
▼ TUA 6036 T Evaboard	on request	—	Tuner: Evaluation board for TUA 6036 T
▼ TUA6041 Evaboard	on request	—	Lighting: Evaluation board for TUA 6041
▼ TUA6041 Ref Tuner UHF	on request	—	Lighting: Reference tuner board (UHF) for TUA 6041
▼ TUA6045 Evaboard DVB-T	on request	—	Taifun 3: Evaluation board (DVB-T) for TUA 6045
▼ TUA6045 Evaboard ISDB-T	on request	—	Taifun 3: Evaluation board (ISDB-T) for TUA 6045
▼ TUA6045 Evaboard ATSC	on request	—	Taifun 3: Evaluation board (ATSC) for TUA 6045
▼ TUA6045 Evaboard T-DMB	on request	—	Taifun 3: Evaluation board (T-DMB) for TUA 6045
▼ TUA6045 Ref Tuner T-DMB/DAB (BAND III)	on request	—	Taifun 3: Reference tuner board (T-DMB/DAB Band III) with TUA 6045

SMD = Surface Mounted Device



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## Microcontrollers

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# Microcontrollers



Type	Ordering Code	Package	Description
<b>Microcontrollers, 32-bit</b>			
▼ SAF-TC1100-L100EB BB-Step	SP000099818	P-LBGA-208-2	Consumer class TriCore™ CPU with 4-stage pipeline, floating point unit, memory management unit, 144-Kbyte on-chip SRAM, multifunctional general purpose timer unit with three 32-bit timer/counters, one capture and compare unit 6 for PWM signal generation, 100-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-TC1100-L100EB-G BB-Step	SP000106546	PG-LBGA-208-2	SAF-TC1100-L100EB, tray
▼ SAF-TC1100-L100EB BB-Step	SP000099817	P-LBGA-208-2	as SAF-TC1100-L100EB, tape & reel
▼ SAF-TC1100-L100EB-G BB-Step	SP000106545	PG-LBGA-208-2	
▼ SAF-TC1100-L150EB BB-Step	SP000106548	P-LBGA-208-2	as SAF-TC1100-L100EB, 150-MHz clock frequency, tray
▼ SAF-TC1100-L150EB-G BB-Step	SP000099816	PG-LBGA-208-2	
▼ SAF-TC1100-L150EB BB-Step	SP000106547	P-LBGA-208-2	as SAF-TC1100-L100EB, 150-MHz clock frequency, tape & reel
▼ SAF-TC1100-L150EB-G BB-Step	SP000099815	PG-LBGA-208-2	
▼ SAF-TC1115L-100EB BB-Step	SP000099814	P-LBGA-208-2	High performance TriCore™ CPU with 4-stage pipeline, floating point unit, memory management unit, 144-Kbyte on-chip SRAM, multifunctional general purpose timer unit with three 32-bit timer/counters, two capture and compare unit 6 for PWM signal generation, multiCAN module with four CAN nodes, 100-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-TC1115L-100EB-G BB-Step	SP000106544	PG-LBGA-208-2	as SAF-TC1115L-100EB, tray
▼ SAF-TC1115L-100EB BB-Step	SP000099813	P-LBGA-208-2	as SAF-TC1115L-100EB, tape & reel
▼ SAF-TC1115L-100EB-G BB-Step	SP000106543	PG-LBGA-208-2	
▼ SAF-TC1115L-150EB BB-Step	SP000106542	P-LBGA-208-2	as SAF-TC1115L-100EB, 150-MHz clock frequency, tray
▼ SAF-TC1115L-150EB-G BB-Step	SP000099812	PG-LBGA-208-2	
▼ SAF-TC1115L-150EB BB-Step	SP000106541	P-LBGA-208-2	as SAF-TC1115L-100EB, 150-MHz clock frequency, tape & reel
▼ SAF-TC1115L-150EB-G BB-Step	SP000099811	PG-LBGA-208-2	
▼ SAF-TC1130L-100EB BB-Step	SP000099810	P-LBGA-208-2	Industrial communication controller, TriCore™ CPU with 4-stage pipeline, floating point unit, memory management unit, 144-Kbyte on-chip SRAM, fast Ethernet controller with 10/100-Mbit/s, multifunctional general purpose timer unit with three 32-bit timer/counters, two capture and compare unit 6 for PWM signal generation, multiCAN module with four CAN nodes, 100-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-TC1130L-100EB-G BB-Step	SP000106540	PG-LBGA-208-2	as SAF-TC1130L-100EB, tray
▼ SAF-TC1130L-100EB BB-Step	SP000099809	P-LBGA-208-2	as SAF-TC1130L-100EB, tape & reel
▼ SAF-TC1130L-100EB-G BB-Step	SP000106539	PG-LBGA-208-2	
▼ SAF-TC1130L-150EB BB-Step	SP000099808	P-LBGA-208-2	as SAF-TC1130L-100EB, 150-MHz frequency, tray
▼ SAF-TC1130L-150EB-G BB-Step	SP000106538	PG-LBGA-208-2	
▼ SAF-TC1130L-150EB BB-Step	SP000099807	P-LBGA-208-2	as SAF-TC1130L-150EB, tape & reel
▼ SAF-TC1130L-150EB-G BB-Step	SP000106119	PG-LBGA-208-2	

SMD = Surface Mounted Device

# Microcontrollers



Type	Ordering Code	Package	Description
<b>Microcontrollers, 32-bit</b> (cont'd)			
▼ SAF-TC1161-128F66HL AA-Step	SP000105856	P-LQFP-176-1	High performance TriCore™ CPU with 4-stage pipeline, 1-Mbyte embedded program flash, 16-Kbyte data flash, 48-Kbyte on-chip SRAM, floating point unit, 16-channel analog-to-digital converter unit with 8-, 10- or 12-bit resolution, general purpose timer array module, two asynchronous/synchronous serial channels with baud generator, 2-channel fast analog-to-digital converter unit, OCDS level 1 and 2, 66-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-TC1162-128F66HL AA-Step	SP000105857	P-LQFP-176-1	as SAF-TC1161-128F66HL, with multiCAN module, two CAN nodes, tray
▼ SAF-TC1163-128F80HL AA-Step	SP000105858	PG-LQFP-176-1	as SAF-TC1161-128F66HL, 56-Kbyte on-chip SRAM, 80-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-TC1164-128F80HL AA-Step	SP000105859	PG-LQFP-176-1	as SAF-TC1163-128F80HL, with multiCAN module, two CAN nodes, -40°C to 85°C, tray
▼ SAF-TC1165-192F80HL AA-Step	SP000105860	PG-LQFP-176-1	as SAF-TC1161-128F66HL, 1.5-Mbyte embedded program flash, 32-Kbyte data flash, 80-Kbyte on-chip SRAM, 80-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-TC1166-192F80HL AA-Step	SP000105861	PG-LQFP-176-1	as SAF-TC1165-192F80HL, with multiCAN module, two CAN nodes, tray
▼ SAK-TC1765N-L40EB AC-Step	SP000013498	P-LBGA-260-2	Advanced TriCore™ based controller for automotive and industrial applications (AUDO1™ family), 8-channel DMA controller, 48-Kbyte on-chip SRAM, multifunctional general purpose timer unit, watchdog timer, two on-chip CAN interfaces, two A/D converter, 40-MHz clock frequency, OCDS level 1, -40°C to 125°C, tray
▼ SAK-TC1765N-L40EB-G AC-Step	SP000235281	PG-LBGA-260-2	as SAK-TC1765N-L40EB, additional 16-bit OCDS level 2 trace port, tape & reel
▼ SAK-TC1765T-L40EB AC-Step	SP000094463	P-LBGA-260-2	as SAK-TC1765N-L40EB, additional 16-bit OCDS level 2 trace port, tape & reel
SAK-TC1775-L40E BA-Step	SP000012965	P-BGA-329-1	Highly integrated TriCore™ based controller for automotive and industrial applications (AUDO1™ family), 93-Kbyte on-chip SRAM, multifunctional general purpose timer unit, watchdog timer, two on-chip CAN interfaces, two A/D converter, 40-MHz clock frequency, on-chip debug support (OCDS level 2), -40°C to 125°C, tray
▼ SAK-TC1775-L40E-G BA-Step	SP000235280	PG-BGA-329-1	as SAK-TC1775-L40E, additional 16-bit OCDS level 2 trace port, tape & reel
▼ SAK-TC1766-192F80HL BB-Step	SP000101658	PG-LQFP-176-1	High performance TriCore™ CPU with 4-stage pipeline (AUDO-NG family), 1.5-Mbyte embedded program flash, 32-Kbyte data flash, 76-Kbyte on-chip SRAM, floating point unit, one 32-channel analog-to-digital converter unit with 8-, 10- or 12-bit resolution, general purpose timer array module, two synchronous serial channels with programmable data length and shift direction, 2-channel fast analog-to-digital converter unit, OCDS level 1 and 2, with multiCAN module, two CAN nodes, 80-MHz clock frequency, -40°C to 125°C, tray
SAF-TC1796-256F100E BC-Step	SP000064091	P-BGA-416-4	Highly integrated TriCore™ based controller for high-end automotive and industrial applications (AUDO-NG family), 2-Mbyte embedded program flash with ECC, 128-Kbyte data flash for scalable 16-Kbyte EEPROM emulation, 208-Kbyte on-chip SRAM, 16-Kbyte instruction cache, single precision floating point unit (FPU), 16-channel DMA controller, multifunctional general purpose timer unit, watchdog timer, two A/D converter, on-chip debug support (OCDS level 2), four CAN nodes, 100-MHz clock frequency, -40°C to 85°C, tray
SAF-TC1796-256F150E BC-Step	SP000064092	P-BGA-416-4	as SAF-TC1796-256F100E, 150-MHz clock frequency, tray
▼ SAF-TC1796-256F150E BC-Step	SP000096055	P-BGA-416-4	as SAF-TC1796-256F150E, tape & reel
▼ SAK-TC1796-256F150E BC-Step	SP000097528	P-BGA-416-4	as SAK-TC1796-256F150E, tape & reel
▼ SAK-TC1796-256F150E BD-Step	SP000228013	P-BGA-416-4	as SAF-TC1796-256F150E, -40°C to 125°C, tray
▼ SAK-TC1796-256F150E-G BD-Step	SP000228336	PG-BGA-416-4	as SAF-TC1796-256F150E, -40°C to 125°C, tray

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Package	Description
<b>Microcontrollers, 16-bit</b>			
▼ SAB-C161CS-LF CA-Step	SP000053817	P-TQFP-128-2	ROMless, 10-Kbyte on-chip SRAM, two on-chip CAN-interfaces (CAN1,CAN2), two 16-channel capture/compare units, 12-channel 10-bit ADC, watchdog timer, oscillator watchdog, additional 32-kHz oscillator, 25-MHz clock frequency, tray
▼ SAB-C161CS-LF CA-Step	SP000106860	PG-TQFP-128-2	
▼ SAB-C161CS-LF CA-Step	SP000016425	P-TQFP-128-2	as SAB-C161CS-LF, tape & reel
▼ SAB-C161CS-LF CA-Step	SP000106861	PG-TQFP-128-2	
SAF-C161CS-LF CA-Step	SP000016999	P-TQFP-128-2	as SAB-C161CS-LF, -40°C to 85°C, tray
▼ SAF-C161CS-LF	SP000106865	PG-TQFP-128-2	
▼ SAF-C161CS-LF	SP000014380	P-TQFP-128-2	as SAF-C161CS-LF, tape & reel
▼ SAF-C161CS-LF	SP000106866	PG-TQFP-128-2	
▼ SAK-C161CS-LF CA-Step	SP000016997	P-TQFP-128-2	
▼ SAK-C161CS-LF CA-Step	SP000106868	PG-TQFP-128-2	as SAF-C161CS-LF, -40°C to 125°C, tray
▼ SAK-C161CS-LF CA-Step	SP000016998	P-TQFP-128-2	
▼ SAK-C161CS-LF CA-Step	SP000106869	PG-TQFP-128-2	as SAF-C161CS-LF, -40°C to 125°C, tape & reel
▼ SAB-C161JC-LF CA-Step	SP000057562	P-TQFP-128-2	
▼ SAB-C161JC-LF CA-Step	SP000057563	P-TQFP-128-2	as SAB-C161JC-LF, one on-chip CAN-interface (CAN1), serial data link module J1850 (SDLM), tray
▼ SAB-C161JC-LF CA-Step	SP000057563	P-TQFP-128-2	as SAB-C161JC-LF, tape & reel
▼ SAK-C161JC-LF CA-Step	SP000057699	P-TQFP-128-2	as SAB-C161JC-LF, -40°C to 125°C, tray
▼ SAK-C161JC-LF CA-Step	SP000057698	P-TQFP-128-2	as SAK-C161JC-LF, tape & reel
▼ SAB-C161JI-LF CA-Step	SP000057588	P-TQFP-128-2	as SAB-C161JC-LF, without CAN-interface (CAN1), tape & reel
▼ SAF-C161JI-LF CA-Step	SP000057564	P-TQFP-128-2	as SAB-C161JI-LF, -40°C to 85°C, tape & reel
SAK-C161JI-32RF CA-Step	SP000065641	P-TQFP-128-2	as SAB-C161JI-LF, 256-Kbyte on-chip ROM, -40°C to 125°C, tray
▼ SAK-C161JI-32RF CA-Step	SP000057491	P-TQFP-128-2	as SAK-C161JI-32RF, tape & reel
SAB-C161K-LM HA-Step	SP000011584	P-MQFP-80-1	ROMless, 1-Kbyte on-chip RAM, one general purpose timer unit with 3 timers, two serial interfaces, 4 fast external interrupt inputs, 4-Mbyte address range, two chip select signals, DMUX bus, additional timer unit with capture input, operating range 5 V, 20-MHz clock frequency, tray
SAB-C161K-LM HA-Step	SP000011585	P-MQFP-80-1	as SAB-C161K-LM, tape & reel
SAF-C161K-LM HA-Step	SP000011620	P-MQFP-80-1	as SAB-C161K-LM, -40°C to 85°C, tray
▼ SAF-C161K-LM3V HA-Step	SP000011621	P-MQFP-80-1	as SAB-C161K-LM, operating range 3 V, -40°C to 85°C, tape & reel
SAB-C161O-LM HA-Step	SP000011586	P-MQFP-80-1	as SAB-C161K-LM, 2-Kbyte on-chip internal RAM, two general purpose timer units with 5 timers, four chip-select signals, tray
SAB-C161O-LM HA-Step	SP000011587	P-MQFP-80-1	as SAB-C161O-LM, tape & reel
SAF-C161O-LM HA-Step	SP000011622	P-MQFP-80-1	as SAB-C161O-LM, -40°C to 85°C, tray
SAF-C161O-LM HA-Step	SP000011623	P-MQFP-80-1	as SAF-C161O-LM, tape & reel
SAB-C161O-L25M HA-Step	SP000014268	P-MQFP-80-1	as SAB-C161O-LM, 25-MHz clock frequency, tape & reel
SAF-C161O-L25M HA-Step	SP000014269	P-MQFP-80-1	as SAB-C161O-L25M, -40°C to 85°C, tape & reel
SAB-C161O-LM3V HA-Step	SP000011588	P-MQFP-80-1	as SAB-C161O-LM, operating range 3 V, tape & reel
SAF-C161O-LM3V HA-Step	SP000011624	P-MQFP-80-1	as SAB-C161O-LM3V, -40°C to 85°C, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Package	Description
<b>Microcontrollers, 16-bit</b> (cont'd)			
SAB-C161PI-LF CA-Step	SP000014344	P-TQFP-100-1	ROMless, 3-Kbyte RAM, 8-bit ADC, real time clock, general purpose timer units, I <sup>2</sup> C Bus, USART, watchdog timer, idle and power down mode, operating range 5 V, 10-bit ADC, 20-MHz clock frequency, tape & reel
SAF-C161PI-LF CA-Step	SP000014359	P-TQFP-100-1	as SAB-C161PI-LF, -40°C to 85°C, tape & reel
SAB-C161PI-LF3V CA-Step	SP000014360	P-TQFP-100-1	as SAB-C161PI-LF, operating range 3 V, tape & reel
SAF-C161PI-LF3V CA-Step	SP000014361	P-TQFP-100-1	as SAB-C161PI-LF 3 V, -40°C to 85°C, tape & reel
▼ SAB-C161PI-L25F CA-Step	SP000014362	P-TQFP-100-1	as SAB-C161PI-LF, 25-MHz clock frequency, tape & reel
▼ SAF-C161PI-L25F CA-Step	SP000014363	P-TQFP-100-1	as SAB-C161PI-L25F, -40°C to 85°C, tape & reel
SAB-C161PI-LM CA-Step	SP000014345	P-MQFP-100-2	as SAB-C161PI-LF, MQFP package, tape & reel
SAF-C161PI-LM CA-Step	SP000014364	P-MQFP-100-2	as SAB-C161PI-LM, -40°C to 85°C, tape & reel
SAB-C161PI-LM3V CA-Step	SP000014365	P-MQFP-100-2	as SAB-C161PI-LM, operating range 3 V, tape & reel
SAF-C161PI-LM3V CA-Step	SP000014366	P-MQFP-100-2	as SAB-C161PI-LM 3V, -40°C to 85°C, tape & reel
▼ SAB-C161PI-L25M CA-Step	SP000014367	P-MQFP-100-2	as SAB-C161PI-LM, 25-MHz clock frequency, tape & reel
SAF-C161PI-L25M CA-Step	SP000014368	P-MQFP-100-2	as SAB-C161PI-L25M, -40°C to 85°C, tape & reel
SAB-C161S-L25M AA-Step	SP000014739	P-MQFP-80-7	as SAB-C161PI-LM, low cost version, 25-MHz clock frequency, tape & reel
SAF-C161S-L25M AA-Step	SP000014947	P-MQFP-80-7	as SAB-C161S-L25M, -40°C to 85°C, tape & reel
SAB-C161S-LM3V AA-Step	SP000014946	P-MQFP-80-7	as SAB-C161PI-LM, low cost version, operating range 3 V, tape & reel
SAF-C161S-LM3V AA-Step	SP000014948	P-MQFP-80-7	as SAB-C161PI-LM, -40°C to 85°C, tape & reel



SMD = Surface Mounted Device

## Microcontrollers

Type	Ordering Code	Package	Description
<b>Microcontrollers, 16-bit</b> (cont'd)			
▼ SAF-XC161CJ-16F20F BB-Step	SP000083663	P-TQFP-144-19	128-Kbyte on-chip program memory (flash memory), 8-Kbyte RAM, programmable watchdog timer, oscillator watchdog, two 16-channel general purpose capture/compare units, TwinCAN module, two Full-CAN nodes, serial data link module (J1850), 12-channel 10-bit A/D converter, 20-MHz clock frequency, -40°C to 85°C, tape & reel
▼ SAF-XC161CJ-16F20F BB-Step	SP000231472	PG-TQFP-144-19	
▼ SAK-XC161CJ-16F20F BB-Step	SP000096148	P-TQFP-144-19	as SAF-XC161CJ-16F20F, -40°C to 125°C, tape & reel
▼ SAK-XC161CJ-16F20F BB-Step	SP000224538	PG-TQFP-144-19	
▼ SAF-XC161CJ-16F40F BB-Step	SP000096147	P-TQFP-144-19	as SAF-XC161CJ-16F20F, 40-MHz clock frequency, tape & reel
▼ SAF-XC161CJ-16F40F BB-Step	SP000224537	PG-TQFP-144-19	
▼ SAK-XC161CJ-16F40F BB-Step	SP000083664	P-TQFP-144-19	as SAF-XC161CJ-16F40F, -40°C to 125°C, tape & reel
▼ SAK-XC161CJ-16F40F BB-Step	SP000224540	PG-TQFP-144-19	
▼ SAF-XC161CS-32F20F BB-A-Step	SP000098772	P-TQFP-144-19	256-Kbyte on-chip program memory (flash memory), 12-Kbyte RAM, programmable watchdog timer, oscillator watchdog, two 16-channel general purpose capture/compare units, TwinCAN module, two Full-CAN nodes, serial data link module (J1850), 20-MHz clock frequency, -40°C to 85°C, tape & reel
▼ SAF-XC161CS-32F20F BB-A-Step	SP000224541	PG-TQFP-144-19	
▼ SAK-XC161CS-32F20F BB-A-Step	SP000098774	P-TQFP-144-19	as SAF-XC161CS-32F20F, -40°C to 125°C, tape & reel
▼ SAK-XC161CS-32F20F BB-A-Step	SP000224543	PG-TQFP-144-19	
▼ SAF-XC161CS-32F40F BB-A-Step	SP000098773	P-TQFP-144-19	as SAF-XC161CS-32F20F, 40-MHz clock frequency, tape & reel
▼ SAF-XC161CS-32F40F BB-A-Step	SP000224542	PG-TQFP-144-19	
▼ SAK-XC161CS-32F40F BB-A-Step	SP000098775	P-TQFP-144-19	as SAF-XC161CS-32F40F, -40°C to 125°C, tape & reel
▼ SAK-XC161CS-32F40F BB-A-Step	SP000224544	PG-TQFP-144-19	

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Package	Description
<b>Microcontrollers, 16-bit</b> (cont'd)			
▼ SAF-C164CI-LM CA+-Step	SP000017582	P-MQFP-80-7	ROMless, 4-Kbyte on-chip static RAM, 10-bit- ADC, real time clock, programmable watchdog timer, oscillator watchdog, idle and power down mode, full CAN-controller (V 2.0 B active), 20-MHz clock frequency, -40°C to 85°C, tape & reel
▼ SAF-C164CI-LM CA+-Step	SP000103495	PG-MQFP-80-7	
SAK-C164CI-LM CA+-Step	SP000017581	P-MQFP-80-7	as SAF-C164CI-LM, -40°C to 125°C, CA-Step, tape & reel
▼ SAK-C164CI-LM CA+-Step	SP000103497	PG-MQFP-80-7	
SAF-C164CI-L25M CA-Step	SP000014436	P-MQFP-80-7	as SAF-C164CI-LM, 25-MHz clock frequency, CA-Step, tape & reel
▼ SAK-C164CI-L25M CA+-Step	SP000059303	P-MQFP-80-7	as SAF-C164CI-L25M, -40°C to 125°C, CA+-Step, tape & reel
SAB-C164CI-LM3V CA+-Step	SP000014439	P-MQFP-80-7	as SAF-C164CI-LM, operating range 3 V, -0°C to 70°C, tape & reel
▼ SAF-C164CI-8EM CB-Step	SP000067718	P-MQFP-80-7	as SAF-C164CI-LM, 64-Kbyte OTP-memory, drive control unit, tray
▼ SAF-C164CI-8EM CB-Step	SP000103498	PG-MQFP-80-7	
▼ SAF-C164CI-8EM CB-Step	SP000067719	P-MQFP-80-7	as SAF-C164CI-8EM, tape & reel
▼ SAF-C164CI-8EM CB-Step	SP000103499	PG-MQFP-80-7	
▼ SAF-C164CI-8EM DB-Step	SP000057429	P-MQFP-80-7	as SAF-C164CI-8EM, DB-Step, tray
▼ SAF-C164CI-8EM DB-Step	SP000104055	PG-MQFP-80-7	
▼ SAF-C164CI-8EM DB-Step	SP000057430	P-MQFP-80-7	as SAF-C164CI-8EM, DB-Step, tape & reel
▼ SAF-C164CI-8EM DB-Step	SP000104056	PG-MQFP-80-7	
▼ SAK-C164CI-8EM CB-Step	SP000057420	P-MQFP-80-7	as SAF-C164CI-8M, -40°C to 125°C, tray
▼ SAK-C164CI-8EM CB-Step	SP000103500	PG-MQFP-80-7	
▼ SAK-C164CI-8EM CB-Step	SP000067720	P-MQFP-80-7	as SAK-C164CI-8EM, tape & reel
▼ SAK-C164CI-8EM CB-Step	SP000103501	PG-MQFP-80-7	
▼ SAK-C164CI-8EM DA-Step	SP000013602	P-MQFP-80-7	as SAK-C164CI-8EM, DA-Step, tape & reel
▼ SAK-C164CI-8EM DB-Step	SP000054995	P-MQFP-80-7	as SAK-C164CI-8EM, DB-Step, tray
▼ SAK-C164CI-8EM DB-Step	SP000104059	PG-MQFP-80-7	
▼ SAK-C164CI-8EM DB-Step	SP000057419	P-MQFP-80-7	as SAK-C164CI-8EM, tape & reel
▼ SAK-C164CI-8EM DB-Step	SP000104060	PG-MQFP-80-7	
▼ SAF-C164CI-8E25M DB-Step	SP000057427	P-MQFP-80-7	as SAF-C164CI-8EM, 25-MHz clock frequency, tray
▼ SAF-C164CI-8E25M DB-Step	SP000104053	PG-MQFP-80-7	
▼ SAF-C164CI-8E25M DB-Step	SP000057428	P-MQFP-80-7	as SAF-C164CI-8E25M, tape & reel
▼ SAF-C164CI-8E25M DB-Step	SP000104054	PG-MQFP-80-7	
▼ SAF-C164CI-8E28M DB-Step	SP000057421	P-MQFP-80-7	as SAF-C164C8EM, 28-MHz clock frequency, tape & reel
▼ SAK-C164CI-8E25M DB-Step	SP000057431	P-MQFP-80-7	as SAF-C164CI-825M, tray
▼ SAK-C164CI-8E25M DB-Step	SP000104057	PG-MQFP-80-7	
▼ SAK-C164CI-8E25M DB-Step	SP000057417	P-MQFP-80-7	as SAK-C164CI-8E25M, tape & reel
▼ SAK-C164CI-8E25M DB-Step	SP000104058	PG-MQFP-80-7	

SMD = Surface Mounted Device

## Microcontrollers

Type	Ordering Code	Package	Description
<b>Microcontrollers, 16-bit</b> (cont'd)			
▼ SAB-C164CL-8R25M CA+-Step	SP000084083	P-MQFP-80-7	as SAF-C164CI-LM, 16-Kbyte ROM, reduced CAPCOM functionality, 0°C to 70°C, 25-MHz clock frequency, tape & reel
▼ SAF-C164CM-4EF AB-Step	SP000068276	P-TQFP-64-4	32-Kbyte OTP memory, 2-Kbyte on-chip static RAM, 10-bit ADC, real time clock, programmable watchdog timer, oscillator watchdog, on-chip CAN-interface (V 2.0 B active), drive control unit, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-C164CM-4EF AB-Step	SP000104061	PG-TQFP-64-4	
▼ SAF-C164CM-4EF AB-Step	SP000068277	P-TQFP-64-4	as SAF-C164CM-EF, AB-Step, tape & reel
▼ SAF-C164CM-4EF AB-Step	SP000104062	PG-TQFP-64-4	
▼ SAK-C164CM-4EF AB-Step	SP000056829	P-TQFP-64-4	as SAF-C164CM-4EF, -40°C to 125°C, tape & reel
▼ SAK-C164CM-4EF AB-Step	SP000104063	PG-TQFP-64-4	
SAF-C164CM-4E25F	SP000065629	P-TQFP-64-4	as SAF-C164CM-4EF, 25-MHz clock frequency, tray

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SMD = Surface Mounted Device



# Microcontrollers

Type	Ordering Code	Package	Description
<b>Microcontrollers, 16-bit</b> (cont'd)			
▼ SAF-XC164CM-4F20F AA-Step	SP000203862	PG-TQFP-64-4	32-Kbyte on-chip program memory (flash memory), 2-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/compare units, TwinCAN module, one Full-CAN nodes, 14-channel 10-Bit A/D converter, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164CM-4F20F AA-Step	SP000084408	PG-TQFP-64-4	as SAF-XC164CM-4F20F, tape & reel
▼ SAK-XC164CM-4F20F AA-Step	SP000203866	PG-TQFP-64-4	as SAF-XC164CM-4F20F, -40°C to 125°C, tray
▼ SAK-XC164CM-4F20F AA-Step	SP000084409	PG-TQFP-64-4	as SAK-XC164CM-4F20F, tape & reel
▼ SAF-XC164CM-4F40F AA-Step	SP000203863	PG-TQFP-64-4	as SAF-XC164CM-4F20F, 40-MHz clock frequency, tray
▼ SAF-XC164CM-4F40F AA-Step	SP000084410	PG-TQFP-64-4	as SAF-XC164CM-4F40F, tape & reel
▼ SAK-XC164CM-4F40F AA-Step	SP000203867	PG-TQFP-64-4	as SAF-XC164CM-4F40F, -40°C to 125°C, tray
▼ SAK-XC164CM-4F40F AA-Step	SP000084411	PG-TQFP-64-4	as SAK-XC164CM-4F40F, tape & reel
SAF-XC164CM-8F20F AA-Step	SP000203864	PG-TQFP-64-4	as SAF-XC164CM4F20F, 64-Kbyte on-chip program memory (flash memory), tray
SAF-XC164CM-8F20F AA-Step	SP000065633	PG-TQFP-64-4	as SAF-XC164CM8F20F, tape & reel
▼ SAK-XC164CM-8F20F AA-Step	SP000203868	PG-TQFP-64-4	as SAF-XC164CM-8F20F, -40°C to 125°C, tray
▼ SAK-XC164CM-8F20F AA-Step	SP000065643	PG-TQFP-64-4	as SAK-XC164CM-8F20F, tape & reel
SAF-XC164CM-8F40F AA-Step	SP000203865	PG-TQFP-64-4	as SAF-XC164CM-8F20F, 40-MHz clock frequency, tray
SAF-XC164CM-8F40F AA-Step	SP000065635	PG-TQFP-64-4	as SAF-XC164CM-8F40F, tape & reel
SAK-XC164CM-8F40F AA-Step	SP000203869	PG-TQFP-64-4	as SAF-XC164CM-8F40F, -40°C to 125°C, tray
SAK-XC164CM-8F40F AA-Step	SP000065644	PG-TQFP-64-4	as SAK-XC164CM-8F40F, tape & reel
▼ SAF-XC164CR-16F20F AA-Step	SP000205541	P-TQFP-64-4	as SAF-XC164CM-4F20F, without CAN interface, 128-Kbyte on-chip program memory (flash memory), tape & reel



SMD = Surface Mounted Device

# Microcontrollers



Type	Ordering Code	Package	Description
<b>Microcontrollers, 16-bit</b> (cont'd)			
▼ SAF-XC164CS-8F20F BB-Step	SP000094524	P-TQFP-100-16	64-Kbyte on-chip program memory (flash memory), 6-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, two 16-channel purpose capture/compare units, TwinCAN module, two Full-CAN nodes, 14-channel 10-bit A/D converter, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164CS-8F20F BB-Step	SP000224555	PG-TQFP-100-16	
▼ SAF-XC164CS-8F20F BB-Step	SP000094523	P-TQFP-100-16	as SAF-XC164CS-8F20F, tape & reel
▼ SAF-XC164CS-8F20F BB-Step	SP000224554	PG-TQFP-100-16	
▼ SAK-XC164CS-8F20F BB-Step	SP000224563	PG-TQFP-100-16	as SAF-XC164CS-8F20F, -40°C to 125°C, tray
▼ SAK-XC164CS-8F20F BB-Step	SP000096145	P-TQFP-100-16	as SAK-XC164CS-8F20F, tape & reel
▼ SAK-XC164CS-8F20F BB-Step	SP000224562	PG-TQFP-100-16	
▼ SAF-XC164CS-8F40F BB-Step	SP000094526	P-TQFP-100-16	as SAF-XC164CS-8F20F, 40-MHz clock frequency, tray
▼ SAF-XC164CS-8F40F BB-Step	SP000224557	PG-TQFP-100-16	
▼ SAF-XC164CS-8F40F BB-Step	SP000094525	P-TQFP-100-16	as SAF-XC164CS-8F40F, tape & reel
▼ SAF-XC164CS-8F40F BB-Step	SP000224556	PG-TQFP-100-16	
▼ SAK-XC164CS-8F40F BB-Step	SP000224565	PG-TQFP-100-16	as SAF-XC164CS-8F40F, -40°C to 125°C, tray
▼ SAK-XC164CS-8F40F BB-Step	SP000096146	P-TQFP-100-16	as SAK-XC164CS-8F40F, tape & reel
▼ SAK-XC164CS-8F40F BB-Step	SP000224564	PG-TQFP-100-16	
▼ SAF-XC164CS-16F20F BB-Step	SP000094305	P-TQFP-100-16	as SAF-XC164CS-8F20F, 128-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XC164CS-16F20F BB-Step	SP000224551	PG-TQFP-100-16	
▼ SAF-XC164CS-16F20F BB-Step	SP000092085	P-TQFP-100-16	as SAF-XC164CS-16F20F, tape & reel
▼ SAK-XC164CS-16F20F BB-Step	SP000224559	PG-TQFP-100-16	as SAF-XC164CS-16F20F, -40°C to 125°C, tray
▼ SAK-XC164CS-16F20F BB-Step	SP000094533	P-TQFP-100-16	as SAK-XC164CS-16F20F, tape & reel
▼ SAK-XC164CS-16F20F BB-Step	SP000224558	PG-TQFP-100-16	
▼ SAF-XC164CS-16F40F BB-Step	SP000094313	P-TQFP-100-16	as SAF-XC164CS-16F20F, 40-MHz clock frequency, tray
▼ SAF-XC164CS-16F40F BB-Step	SP000224553	PG-TQFP-100-16	
▼ SAF-XC164CS-16F40F BB-Step	SP000094312	P-TQFP-100-16	as SAF-XC164CS-16F40F, tape & reel
▼ SAF-XC164CS-16F40F BB-Step	SP000224552	PG-TQFP-100-16	
▼ SAK-XC164CS-16F40F BB-Step	SP000224561	PG-TQFP-100-16	as SAF-XC164CS-16F40F, -40°C to 125°C, tray
▼ SAK-XC164CS-16F40F BB-Step	SP000083674	P-TQFP-100-16	as SAK-XC164CS-16F40F, tape & reel
▼ SAK-XC164CS-16F40F BB-Step	SP000224560	PG-TQFP-100-16	

SMD = Surface Mounted Device

## Microcontrollers

Type	Ordering Code	Package	Description
<b>Microcontrollers, 16-bit</b> (cont'd)			
▼ SAF-XC164CS-32F20F BB-A-Step	SP000224591	PG-TQFP-100-16	as SAF-XC164CS-16F20F, 256-Kbyte on-chip program memory (flash memory), 12-Kbyte RAM, tray
▼ SAF-XC164CS-32F20F BB-A-Step	SP000098787	P-TQFP-100-16	as SAF-XC164CS-32F20F, tape & reel
▼ SAF-XC164CS-32F20F BB-A-Step	SP000224590	PG-TQFP-100-16	
▼ SAK-XC164CS-32F20F BB-A-Step	SP000224595	PG-TQFP-100-16	as SAF-XC164CS-32F20F, -40°C to 125°C, tray
▼ SAK-XC164CS-32F20F BB-A-Step	SP000098788	P-TQFP-100-16	as SAK-XC164CS-32F20F, tape & reel
▼ SAK-XC164CS-32F20F BB-A-Step	SP000222594	PG-TQFP-100-16	
▼ SAF-XC164CS-32F40F BB-A-Step	SP000224593	PG-TQFP-100-16	as SAF-XC164CS-32F20F, 40-MHz clock frequency, tray
▼ SAF-XC164CS-32F40F BB-A-Step	SP000098670	P-TQFP-100-16	as SAF-XC164CS-32F40F, tape & reel
▼ SAF-XC164CS-32F40F BB-A-Step	SP000224592	PG-TQFP-100-16	
▼ SAK-XC164CS-32F40F BB-A-Step	SP000224597	PG-TQFP-100-16	as SAF-XC164CS-32F40F, -40°C to 125°C, tray
▼ SAK-XC164CS-32F40F BB-A-Step	SP000087332	P-TQFP-100-16	as SAK-XC164CS-32F40F, tape & reel
▼ SAK-XC164CS-32F40F BB-A-Step	SP000224596	PG-TQFP-100-16	

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SMD = Surface Mounted Device

## Microcontrollers

Type	Ordering Code	Package	Description
<b>Microcontrollers, 16-bit</b> (cont'd)			
▼ SAF-XC164D-8F20F BB-Step	SP000094511	P-TQFP-100-16	64-Kbyte on-chip program memory (flash memory), 6-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, two 16-channel purpose capture/compare units, TwinCAN module, two Full-CAN nodes, CAPCOM6E module, power saving modes, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164D-8F20F BB-Step	SP000224581	PG-TQFP-100-16	
▼ SAF-XC164D-8F20F BB-Step	SP000094510	P-TQFP-100-16	as SAF-XC164D-8F20F, tape & reel
▼ SAF-XC164D-8F20F BB-Step	SP000224580	PG-TQFP-100-16	
▼ SAF-XC164D-8F40F BB-Step	SP000094513	P-TQFP-100-16	as SAF-XC164D-8F20F, 40-MHz clock frequency, tray
▼ SAF-XC164D-8F40F BB-Step	SP000224587	PG-TQFP-100-16	
▼ SAF-XC164D-8F40F BB-Step	SP000094512	P-TQFP-100-16	as SAF-XC164D-8F40F, tape & reel
▼ SAF-XC164D-8F40F BB-Step	SP000224586	PG-TQFP-100-16	
▼ SAF-XC164D-16F20F BB-Step	SP000094288	P-TQFP-100-16	as SAF-XC164D-8F20F, 128-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XC164D-16F20F BB-Step	SP000224569	PG-TQFP-100-16	
▼ SAF-XC164D-16F20F BB-Step	SP000094287	P-TQFP-100-16	as SAF-XC164D-16F20F, tape & reel
▼ SAF-XC164D-16F20F BB-Step	SP000224568	PG-TQFP-100-16	
▼ SAF-XC164D-16F40F BB-Step	SP000094300	P-TQFP-100-16	as SAF-XC164D-16F20F, 40-MHz clock frequency, tray
▼ SAF-XC164D-16F40F BB-Step	SP000224573	PG-TQFP-100-16	
▼ SAF-XC164D-16F40F BB-Step	SP000094299	P-TQFP-100-16	as SAF-XC164D-16F40F, tape & reel
▼ SAF-XC164D-16F40F BB-Step	SP000224572	PG-TQFP-100-16	

SMD = Surface Mounted Device

# Microcontrollers



Type	Ordering Code	Package	Description
<b>Microcontrollers, 16-bit</b> (cont'd)			
▼ SAF-XC164GM-4F20F AA-Step	SP000203871	PG-TQFP-64-4	32-Kbyte on-chip program memory (flash memory), 2-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, TwinCAN module, one Full-CAN nodes, 14-channel 10-Bit A/D converter, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164GM-4F20F AA-Step	SP000105862	PG-TQFP-64-4	as SAF-XC164GM-4F20F, tape & reel
▼ SAF-XC164GM-4F40F AA-Step	SP000203876	PG-TQFP-64-4	as SAF-XC164GM-4F20F, 40-MHz clock frequency, tray
▼ SAF-XC164GM-4F40F AA-Step	SP000105867	PG-TQFP-64-4	as SAF-XC164GM-4F40F, tape & reel
▼ SAF-XC164GM-8F20F AA-Step	SP000203881	PG-TQFP-64-4	as SAF-XC164GM-4F20F, 64-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XC164GM-8F20F AA-Step	SP000105744	PG-TQFP-64-4	as SAF-XC164GM-8F20F, tape & reel
▼ SAF-XC164GM-8F40F AA-Step	SP000203886	PG-TQFP-64-4	as SAF-XC164GM-8F20F, 40-MHz clock frequency, tray
▼ SAF-XC164GM-8F40F AA-Step	SP000105876	PG-TQFP-64-4	as SAF-XC164GM-8F40F, tape & reel
▼ SAF-XC164KM-4F20F AA-Step	SP000203872	PG-TQFP-64-4	32-Kbyte on-chip program memory (flash memory), 2-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/compare units, TwinCAN module, one Full-CAN nodes, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164KM-4F20F AA-Step	SP000105863	PG-TQFP-64-4	as SAF-XC164KM-4F20F, tape & reel
▼ SAF-XC164KM-4F40F AA-Step	SP000203877	PG-TQFP-64-4	as SAF-XC164KM-4F20F, 40-MHz clock frequency, tray
▼ SAF-XC164KM-4F40F AA-Step	SP000105868	PG-TQFP-64-4	as SAF-XC164KM-4F40F, tape & reel
▼ SAF-XC164KM-8F20F AA-Step	SP000203882	PG-TQFP-64-4	as SAF-XC164KM-4F20F, 64-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XC164KM-8F20F AA-Step	SP000105872	PG-TQFP-64-4	as SAF-XC164KM-8F20F, tape & reel
▼ SAF-XC164KM-8F40F AA-Step	SP000203887	PG-TQFP-64-4	as SAF-XC164KM-8F20F, 40-MHz clock frequency, tray
▼ SAF-XC164KM-8F40F AA-Step	SP000105877	PG-TQFP-64-4	as SAF-XC164KM-8F40F, tape & reel
▼ SAF-XC164LM-4F20F AA-Step	SP000203873	PG-TQFP-64-4	32-Kbyte on-chip program memory (flash memory), 2-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164LM-4F20F AA-Step	SP000105864	PG-TQFP-64-4	as SAF-XC164LM-4F20F, tape & reel
▼ SAF-XC164LM-4F40F AA-Step	SP000203878	PG-TQFP-64-4	as SAF-XC164LM-4F20F, 40-MHz clock frequency, tray
▼ SAF-XC164LM-4F40F AA-Step	SP000105869	PG-TQFP-64-4	as SAF-XC164LM-4F40F, tape & reel
▼ SAF-XC164LM-8F20F AA-Step	SP000203883	PG-TQFP-64-4	as SAF-XC164LM-4F20F, 64-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XC164LM-8F20F AA-Step	SP000105873	PG-TQFP-64-4	as SAF-XC164LM-8F20F, tape & reel
▼ SAF-XC164LM-8F40F AA-Step	SP000203888	PG-TQFP-64-4	as SAF-XC164LM-8F20F, 40-MHz clock frequency, tray
▼ SAF-XC164LM-8F40F AA-Step	SP000105878	PG-TQFP-64-4	as SAF-XC164LM-8F40F, tape & reel

SMD = Surface Mounted Device

## Microcontrollers

Type	Ordering Code	Package	Description
<b>Microcontrollers, 16-bit</b> (cont'd)			
▼ SAF-XC164N-8F20F BB-Step	SP000094515	P-TQFP-100-16	64-Kbyte on-chip program memory (flash memory), 6-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, two 16-channel purpose capture/compare units, two Full-CAN nodes, CAPCOM6E module, power saving modes, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164N-8F20F BB-Step	SP000224583	PG-TQFP-100-16	
▼ SAF-XC164N-8F20F BB-Step	SP000094514	P-TQFP-100-16	as SAF-XC164N-8F20F, tape & reel
▼ SAF-XC164N-8F20F BB-Step	SP000224582	PG-TQFP-100-16	
▼ SAF-XC164N-8F40F BB-Step	SP000094518	P-TQFP-100-16	as SAF-XC164N-8F40F, 40-MHz clock frequency, tray
▼ SAF-XC164N-8F40F BB-Step	SP000224589	PG-TQFP-100-16	
▼ SAF-XC164N-8F40F BB-Step	SP000094517	P-TQFP-100-16	as SAF-XC164N-8F40F, tape & reel
▼ SAF-XC164N-8F40F BB-Step	SP000224588	PG-TQFP-100-16	
▼ SAF-XC164N-16F20F BB-Step	SP000094290	P-TQFP-100-16	as SAF-XC164N-8F20F, 128-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XC164N-16F20F BB-Step	SP000224571	PG-TQFP-100-16	
▼ SAF-XC164N-16F20F BB-Step	SP000094289	P-TQFP-100-16	as SAF-XC164N-16F20F, tape & reel
▼ SAF-XC164N-16F20F BB-Step	SP000224570	PG-TQFP-100-16	
▼ SAF-XC164N-16F40F BB-Step	SP000094302	P-TQFP-100-16	as SAF-XC164N-16F40F, 40-MHz clock frequency, tray
▼ SAF-XC164N-16F40F BB-Step	SP000224575	PG-TQFP-100-16	
▼ SAF-XC164N-16F40F BB-Step	SP000094301	P-TQFP-100-16	as SAF-XC164N-16F40F, tape & reel
▼ SAF-XC164N-16F40F BB-Step	SP000224574	PG-TQFP-100-16	

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SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Package	Description
<b>Microcontrollers, 16-bit</b> (cont'd)			
▼ SAF-XC164S-8F20F BB-Step	SP000094520	P-TQFP-100-16	64-Kbyte on-chip program memory (flash memory), 6-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, two 16-channel purpose capture/compare units, 14-channel 10-bit A/D converter, two Full-CAN nodes, CAPCOM6E module, power saving modes, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164S-8F20F BB-Step	SP000224579	PG-TQFP-100-16	
▼ SAF-XC164S-8F20F BB-Step	SP000094519	P-TQFP-100-16	as SAF-XC164S-8F20F, tape & reel
▼ SAF-XC164S-8F20F BB-Step	SP000224578	PG-TQFP-100-16	
▼ SAF-XC164S-8F40F BB-Step	SP000094522	P-TQFP-100-16	as SAF-XC164S-8F20F, 40-MHz clock frequency, tray
▼ SAF-XC164S-8F40F BB-Step	SP000224585	PG-TQFP-100-16	
▼ SAF-XC164S-8F40F BB-Step	SP000094521	P-TQFP-100-16	as SAF-XC164S-8F40F, tape & reel
▼ SAF-XC164S-8F40F BB-Step	SP000224584	PG-TQFP-100-16	
▼ SAF-XC164S-16F20F BB-Step	SP000094298	P-TQFP-100-16	as SAF-XC164S-8F20F, 128-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XC164S-16F20F BB-Step	SP000224567	PG-TQFP-100-16	
▼ SAF-XC164S-16F20F BB-Step	SP000094296	P-TQFP-100-16	as SAF-XC164S-16F20F, tape & reel
▼ SAF-XC164S-16F20F BB-Step	SP000224566	PG-TQFP-100-16	
▼ SAF-XC164S-16F40F BB-Step	SP000094304	P-TQFP-100-16	as SAF-XC164S-16F20F, 40-MHz clock frequency, tray
▼ SAF-XC164S-16F40F BB-Step	SP000224577	PG-TQFP-100-16	
▼ SAF-XC164S-16F40F BB-Step	SP000094303	P-TQFP-100-16	as SAF-XC164S-16F40F, tape & reel
▼ SAF-XC164S-16F40F BB-Step	SP000224576	PG-TQFP-100-16	



SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Package	Description
<b>Microcontrollers, 16-bit</b> (cont'd)			
▼ SAF-XC164SM-4F20F AA-Step	SP000203874	PG-TQFP-64-4	32-Kbyte on-chip program memory (flash memory), 2-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/compare units, 14-channel 10-Bit A/D converter, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164SM-4F20F AA-Step	SP000105865	PG-TQFP-64-4	as SAF-XC164SM-4F20F, tape & reel
▼ SAF-XC164SM-4F40F AA-Step	SP000203879	PG-TQFP-64-4	as SAF-XC164SM-4F20F, 40-MHz clock frequency, tray
▼ SAF-XC164SM-4F40F AA-Step	SP000105870	PG-TQFP-64-4	as SAF-XC164SM-4F40F, tape & reel
▼ SAF-XC164SM-8F20F AA-Step	SP000203884	PG-TQFP-64-4	as SAF-XC164SM-4F20F, 64-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XC164SM-8F20F AA-Step	SP000105874	PG-TQFP-64-4	as SAF-XC164SM-8F20F, tape & reel
▼ SAF-XC164SM-8F40F AA-Step	SP000203889	PG-TQFP-64-4	as SAF-XC164SM-8F20F, 40-MHz clock frequency, tray
▼ SAF-XC164SM-8F40F AA-Step	SP000105879	PG-TQFP-64-4	as SAF-XC164SM-8F40F, tape & reel
▼ SAF-XC164TM-4F20F AA-Step	SP000203875	PG-TQFP-64-4	32-Kbyte on-chip program memory (flash memory), 2-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, 14-channel 10-Bit A/D converter, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC164TM-4F20F AA-Step	SP000105866	PG-TQFP-64-4	as SAF-XC164TM-4F20F, tape & reel
▼ SAF-XC164TM-4F40F AA-Step	SP000203880	PG-TQFP-64-4	as SAF-XC164TM-4F20F, 40-MHz clock frequency, tray
▼ SAF-XC164TM-4F40F AA-Step	SP000105871	PG-TQFP-64-4	as SAF-XC164TM-4F40F, tape & reel
▼ SAF-XC164TM-8F20F AA-Step	SP000203885	PG-TQFP-64-4	as SAF-XC164TM-4F20F, 64-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XC164TM-8F20F AA-Step	SP000105875	PG-TQFP-64-4	as SAF-XC164TM-8F20F, tape & reel
▼ SAF-XC164TM-8F40F AA-Step	SP000203890	PG-TQFP-64-4	as SAF-XC164TM-8F20F, 40-MHz clock frequency, tray
▼ SAF-XC164TM-8F40F AA-Step	SP000105880	PG-TQFP-64-4	as SAF-XC164TM-8F40F, tape & reel



SMD = Surface Mounted Device



## Microcontrollers

Type	Ordering Code	Package	Description
<b>Microcontrollers, 16-bit</b> (cont'd)			
SAB-C165-LF HA-Step	SP000011595	P-TQFP-100-1	as SAB-C165-LM, P-TQFP package, operating range 5 V, tray
SAB-C165-LF HA-Step	SP000011596	P-TQFP-100-1	as SAB-C165-LF, tape & reel
SAF-C165-LF HA-Step	SP000011631	P-TQFP-100-1	as SAB-C165-LF, -40°C to 85°C, tape & reel
SAB-C165-LF3V HA-Step	SP000011597	P-TQFP-100-1	as SAB-C165-LF, operating range 3 V, tape & reel
SAF-C165-LF3V HA-Step	SP000011632	P-TQFP-100-1	as SAB-C165-LF3V, -40°C to 85°C, tape & reel
SAB-C165-L25F HA-Step	SP000011591	P-TQFP-100-1	as SAB-C165-LF, 25-MHz clock frequency, tray
SAB-C165-L25F HA-Step	SP000011592	P-TQFP-100-1	as SAB-C165-LF, tape & reel
SAF-C165-L25F HA-Step	SP000012870	P-TQFP-100-1	as SAB-C165-L25F, -40°C to 85°C, tape & reel
SAB-C165-LM HA-Step	SP000011598	P-MQFP-100-2	ROMless, 2-Kbyte RAM, MCU-Core, compatible with SAB 80C166, additional 8 fast ext. interrupt inputs, 16-Mbyte address range, watchdog timer, 2 complex timer units, 2 serial interfaces, operating range 5 V, 20-MHz clock frequency, tray
SAB-C165-LM HA-Step	SP000011599	P-MQFP-100-2	as SAB-C165-LM, tape & reel
SAF-C165-LM HA-Step	SP000011633	P-MQFP-100-2	as SAB-C165-LM, -40°C to 85°C, tray
▼ SAF-C165-LM HA-Step	SP000011634	P-MQFP-100-2	as SAB-C165-LM, tape & reel
SAB-C165-LM3V HA-Step	SP000011600	P-MQFP-100-2	as SAB-C165-LM, operating range 3 V, tape & reel
SAF-C165-LM3V HA-Step	SP000011635	P-MQFP-100-2	as SAB-C165-LM3V, -40°C to 85°C, tape & reel
SAB-C165-L25M HA-Step	SP000011593	P-MQFP-100-2	as SAB-C165-LM, 25-MHz clock frequency, tray
SAB-C165-L25M HA-Step	SP000011594	P-MQFP-100-2	as SAB-C165-LM, tape & reel
SAF-C165-L25M HA-Step	SP000011629	P-MQFP-100-2	as SAB-C165-L25M, -40°C to 85°C, tray
SAF-C165-L25M HA-Step	SP000011630	P-MQFP-100-2	as SAB-C165-LM, tape & reel

SMD = Surface Mounted Device

# Microcontrollers



Type	Ordering Code	Package	Description
<b>Microcontrollers, 16-bit</b> (cont'd)			
▼ SAB-C167CR-LM HA+-Step	SP000017976	P-MQFP-144-6	ROMless, 2 × 2-Kbyte RAM, MCU-Core, compatible with SAB 80C166, 10-bit A/D converter, PWM unit, additional 8 fast ext. interrupt inputs, 16-Mbyte address range, watchdog timer, 2 complex timer units, two capture/compare units (32 registers, 4 timers), additional I/O lines, 2 serial interfaces, with CAN, with PLL, 20-MHz clock frequency, tray
▼ SAB-C167CR-LM HA+-Step	SP000103462	PG-MQFP-144-6	as SAB-C167CR-LM, tray
▼ SAB-C167CR-LM HA+-Step	SP000017975	P-MQFP-144-6	as SAB-C167CR-LM, HA+-Step, tape & reel
▼ SAB-C167CR-LM HA+-Step	SP000103463	PG-MQFP-144-6	as SAB-C167CR-LM, tape & reel
▼ SAF-C167CR-LM HA+-Step	SP000016759	P-MQFP-144-6	as SAF-C167CR-LM, HA+-Step, tray
▼ SAF-C167CR-LM HA+-Step	SP000103464	PG-MQFP-144-6	as SAF-C167CR-LM, tray
SAF-C167CR-LM HA+-Step	SP000017995	P-MQFP-144-6	as SAF-C167CR-LM, HA+-Step, tape & reel
▼ SAF-C167CR-LM HA+-Step	SP000103465	PG-MQFP-144-6	as SAF-C167CR-LM, tape & reel
▼ SAK-C167CR-LM HA+-Step	SP000016753	P-MQFP-144-6	as SAK-C167CR-LM, HA+-Step, tray
▼ SAK-C167CR-LM HA+-Step	SP000103466	PG-MQFP-144-6	
▼ SAK-C167CR-LM HA+-Step	SP000016521	P-MQFP-144-6	as SAK-C167CR-LM, HA+-Step, tape & reel
▼ SAK-C167CR-LM HA+-Step	SP000103467	PG-MQFP-144-6	
▼ SAK-C167CR-L33M HA+-Step	SP000017997	P-MQFP-144-6	as SAK-C167CR-L33M, HA+-Step, tray
▼ SAK-C167CR-L33M HA+-Step	SP000103460	PG-MQFP-144-6	
▼ SAK-C167CR-L33M HA+-Step	SP000017993	P-MQFP-144-6	as SAK-C167CR-L33M, HA+-Step, tape & reel
▼ SAK-C167CR-L33M HA+-Step	SP000103461	PG-MQFP-144-6	
▼ SAB-C167CR-16RM HA+-Step	SP000083849	P-MQFP-144-6	as SAB-C167CR-LM, 128-Kbyte ROM, tape & reel
▼ SAK-C167CR-16RM HA+-Step	SP000065652	P-MQFP-144-6	as SAB-C167CR-16RM, -40°C to 125°C, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Package	Description
<b>Microcontrollers, 16-bit</b> (cont'd)			
SAB-C167CS-LM CA+-Step	SP000067513	P-MQFP-144-6	as SAB-C167CR-LM, two on-chip CAN-interfaces, tray
▼ SAB-C167CS-LM CA+-Step	SP000103483	PG-MQFP-144-6	
SAB-C167CS-LM CA+-Step	SP000017996	P-MQFP-144-6	as SAB-C167CS-LM, tape & reel
▼ SAB-C167CS-LM CA+-Step	SP000103488	PG-MQFP-144-6	
▼ SAB-C167CS-LM CA+-Step	SP000103484	PG-MQFP-144-6	as SAB-C167CS-LM, tape & reel
SAF-C167CS-LM CA+-Step	SP000018000	P-MQFP-144-6	as SAB-C167CS-LM, -40°C to 85°C, tray
▼ SAF-C167CS-LM CA+-Step	SP000103487	PG-MQFP-144-6	
SAF-C167CS-LM CA+-Step	SP000017992	P-MQFP-144-6	as SAF-C167CS-LM, tape & reel
SAK-C167CS-LM CA+-Step	SP000016750	P-MQFP-144-6	as SAB-C167CS-LM, -40°C to 125°C, tray
▼ SAK-C167CS-LM CA+-Step	SP000103492	PG-MQFP-144-6	
SAK-C167CS-LM CA+-Step	SP000016504	P-MQFP-144-6	as SAK-C167CS-LM, tape & reel
▼ SAK-C167CS-LM CA+-Step	SP000103493	PG-MQFP-144-6	
▼ SAF-C167CS-L16M3V CA+-Step	SP000103469	PG-MQFP-144-6	as SAB-C167CS-LM, 16-MHz clock frequency, operating range 3 V, tray
SAF-C167CS-L16M3V CA+-Step	SP000017109	P-MQFP-144-6	as SAF-C167CS-L16M3V, tape & reel
▼ SAF-C167CS-L16M3V CA+-Step	SP000103470	PG-MQFP-144-6	
▼ SAF-C167CS-L33M CA+-Step	SP000016732	P-MQFP-144-6	as SAB-C167CS-LM, 33-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-C167CS-L33M CA+-Step	SP000103485	PG-MQFP-144-6	
▼ SAF-C167CS-L33M CA-Step	SP000016731	P-MQFP-144-6	as SAF-C167CS-L33M, tape & reel
▼ SAF-C167CS-L33M CA+-Step	SP000103486	PG-MQFP-144-6	
▼ SAK-C167CS-L33M CA+-Step	SP000017988	P-MQFP-144-6	as SAF-C167CS-L33M, -40°C to 125°C, tape & reel
▼ SAK-C167CS-L33M CA+-Step	SP000103489	PG-MQFP-144-6	
▼ SAB-C167CS-L40M CA+-Step	SP000017984	P-MQFP-144-6	as SAB-C167CS-LM, 40-MHz clock frequency, tray
▼ SAB-C167CS-L40M CA+-Step	SP000103471	PG-MQFP-144-6	
▼ SAB-C167CS-L40M CA+-Step	SP000103468	PG-MQFP-144-6	as SAB-C167CS-LM, 40-MHz clock frequency, tape & reel
SAK167CS-L40M CA+-Step	SP000016752	P-MQFP-144-6	as SAB-C167CS-L40M, -40°C to 125°C, tray
▼ SAK167CS-L40M CA+-Step	SP000103490	PG-MQFP-144-6	
SAK-C167CS-L40M CA+-Step	SP000016751	P-MQFP-144-6	as SAK-C167CS-L40M, tape & reel
▼ SAK-C167CS-L40M CA+-Step	SP000103491	PG-MQFP-144-6	

SMD = Surface Mounted Device

## Microcontrollers

Type	Ordering Code	Package	Description
<b>Microcontrollers, 16-bit</b> (cont'd)			
SAB-C167SR-LM HA+-Step	SP000017980	P-MQFP-144-6	as SAB-C167CR-LM, without CAN interface, tray
▼ SAB-C167SR-LM HA+-Step	SP000103456	PG-MQFP-144-6	
SAB-C167SR-LM HA+-Step	SP000017982	P-MQFP-144-6	as SAB-C167SR-LM, tape & reel
▼ SAB-C167SR-LM HA+-Step	SP000103457	PG-MQFP-144-6	
SAK-C167SR-LM HA+-Step	SP000017999	P-MQFP-144-6	as SAB-C167SR-LM, -40°C to 125°C, tray
▼ SAK-C167SR-LM HA+-Step	SP000103458	PG-MQFP-144-6	
SAK-C167SR-LM HA+-Step	SP000016522	P-MQFP-144-6	as SAK-C167SR-LM, tape & reel
▼ SAK-C167SR-LM HA+-Step	SP000103459	PG-MQFP-144-6	

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SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Package	Description
<b>Microcontrollers, 16-bit</b> (cont'd)			
▼ SAF-XC167CI-16F20F BB-Step	SP000094528	P-TQFP-144-19	128-Kbyte on-chip program memory (flash memory), 8-Kbyte on-chip RAM, programmable watchdog timer, oscillator watchdog, two 16-channel purpose capture/compare units, 16-channel 10-bit A/D converter, TwinCAN module, two Full-CAN nodes, 20-MHz clock frequency, -40°C to 85°C, tray
▼ SAF-XC167CI-16F20F BB-Step	SP000224688	PG-TQFP-144-19	
▼ SAF-XC167CI-16F20F BB-Step	SP000094527	P-TQFP-144-19	as SAF-XC167CI-8F20F, tape & reel
▼ SAF-XC167CI-16F20F BB-Step	SP000224687	PG-TQFP-144-19	
▼ SAK-XC167CI-16F20F BB-Step	SP000224692	PG-TQFP-144-19	as SAF-XC167CI-16F-20F, -40°C to 125°C, tray
▼ SAK-XC167CI-16F20F BB-Step	SP000094531	P-TQFP-144-19	as SAK-XC167CI-16F-20F, tape & reel
▼ SAK-XC167CI-16F20F BB-Step	SP000224691	PG-TQFP-144-19	
▼ SAF-XC167CI-16F40F BB-Step	SP000094530	P-TQFP-144-19	as SAF-XC167CI-16F20F, 40-MHz clock frequency, tray
▼ SAF-XC167CI-16F40F BB-Step	SP000224690	PG-TQFP-144-19	
▼ SAF-XC167CI-16F40F BB-Step	SP000094529	P-TQFP-144-19	as SAF-XC167CI-16F40F, tape & reel
▼ SAF-XC167CI-16F40F BB-Step	SP000224689	PG-TQFP-144-19	
▼ SAK-XC167CI-16F40F BB-Step	SP000094546	P-TQFP-144-19	as SAF-XC167CI-16F40F, -40°C to 125°C, tray
▼ SAK-XC167CI-16F40F BB-Step	SP000224695	PG-TQFP-144-19	
▼ SAK-XC167CI-16F40F BB-Step	SP000094555	P-TQFP-144-19	as SAK-XC167CI-16F40F, tape & reel
▼ SAK-XC167CI-16F40F BB-Step	SP000224694	PG-TQFP-144-19	
▼ SAF-XC167CI-32F20F BB-A-Step	SP000224701	PG-TQFP-144-19	as SAF-XC167CI-16F20F, 256-Kbytes on-chip program memory (flash memory), 12-Kbyte RAM, tray
▼ SAF-XC167CI-32F20F BB-A-Step	SP000098776	P-TQFP-144-19	as SAF-XC167CI-32F20F, tape & reel
▼ SAF-XC167CI-32F20F BB-A-Step	SP000224700	PG-TQFP-144-19	
▼ SAK-XC167CI-32F20F BB-A-Step	SP000224705	PG-TQFP-144-19	as SAF-XC167CI-32F20F, -40°C to 125°C, tray
▼ SAK-XC167CI-32F20F BB-A-Step	SP000098777	P-TQFP-144-19	as SAK-XC167CI-32F20F, tape & reel
▼ SAK-XC167CI-32F20F BB-A-Step	SP000224704	PG-TQFP-144-19	
▼ SAF-XC167CI-32F40F BB-A-Step	SP000224703	PG-TQFP-144-19	as SAF-XC167CI-32F20F, 40-MHz clock frequency, tray
▼ SAF-XC167CI-32F40F BB-A-Step	SP000104964	P-TQFP-144-19	as SAF-XC167CI-32F40F, tape & reel
▼ SAF-XC167CI-32F40F BB-A-Step	SP000224702	PG-TQFP-144-19	
▼ SAK-XC167CI-32F40F BB-A-Step	SP000224707	PG-TQFP-144-19	as SAF-XC167CI-32F40F, -40°C to 125°C, tray
▼ SAK-XC167CI-32F40F BB-A-Step	SP000098778	P-TQFP-144-19	as SAK-XC167CI-32F40F, tape & reel
▼ SAK-XC167CI-32F40F BB-A-Step	SP000224706	PG-TQFP-144-19	

SMD = Surface Mounted Device



# Microcontrollers



Type	Ordering Code	Package	Description
<b>Microcontrollers, 8-bit</b>			
▼ SAF-C505CA-LM CA-Step	SP000106636	P-MQFP-44-2	ROMless, 256-byte on-chip RAM, 1-Kbyte XRAM, oscillator watchdog, watchdog timer, full CAN-controller (V 2.0 B active), 10-bit ADC, three 16-bit timers/counters, 20-MHz clock frequency, tray
▼ SAF-C505CA-LM CA-Step	SP000106669	PG-MQFP-44-2	
▼ SAF-C505CA-LM CA-Step	SP000014488	P-MQFP-44-2	as SAF-C505CA-LM, tape & reel
▼ SAF-C505CA-LM CA-Step	SP000106390	PG-MQFP-44-2	
▼ SAB-C505CA-4EM CA-Step	SP000068757	P-MQFP-44-2	as SAF-C505CA-LM, 32-Kbyte OTP memory, 0°C to 70°C, tray
▼ SAB-C505CA-4EM CA-Step	SP000106391	PG-MQFP-44-2	
▼ SAB-C505CA-4EM CA-Step	SP000068755	P-MQFP-44-2	as SAB-C505CA-4EM, tape & reel
▼ SAB-C505CA-4EM CA-Step	SP000106392	PG-MQFP-44-2	
▼ SAF-C505CA-4EM CA-Step	SP000068758	P-MQFP-44-2	as SAB-C505CA-4 EM, -40°C to 85°C, tray
▼ SAF-C505CA-4EM CA-Step	SP000106394	PG-MQFP-44-2	
▼ SAF-C505CA-4EM CA-Step	SP000068759	P-MQFP-44-2	as SAF-C505CA-4EM, tape & reel
▼ SAF-C505CA-4EM CA-Step	SP000106395	PG-MQFP-44-2	
▼ SAK-C505CA-4EM CA-Step	SP000068754	P-MQFP-44-2	as SAF-C505CA-4EM, -40°C to 125°C, tray
▼ SAK-C505CA-4EM CA-Step	SP000106396	PG-MQFP-44-2	
▼ SAK-C505CA-4EM CA-Step	SP000067377	P-MQFP-44-2	as SAK-C505CA-4EM, tape & reel
▼ SAK-C505CA-4EM CA-Step	SP000107542	PG-MQFP-44-2	
▼ SAF-C505CA-4RM CA-Step	SP000065658	P-MQFP-44-2	as SAB-C505CA-4EM, with 32-Kbyte maskprogrammable ROM, tray
SAF-C505CA-4RM CA-Step	SP000084302	P-MQFP-44-2	as SAF-C505CA-4RM, tape & reel
▼ SAK-C505CA-4RM CA-Step	SP000084304	P-MQFP-44-2	as SAF-C505CA-4RM, -40°C to 125°C, tape & reel
▼ SAF-C515C-8EM CA-Step	SP000068750	P-MQFP-80-1	64-Kbyte OTP memory, 256 x 8-bit RAM, additional 2K x 8-bit on-chip RAM, three 16-bit timer/counters, power saving modes, 10-bit A/D converter, programmable watchdog timer, oscillator watchdog, 10-MHz CPU clock frequency, for external memory, full CAN-controller (V 2.0 B active); -40°C to 85°C, tray
▼ SAF-C515C-8EM CA-Step	SP000106398	PG-MQFP-80-1	
▼ SAF-C515C-8EM CA-Step	SP000067378	P-MQFP-80-1	as SAF-C515C-8EM, tape & reel
▼ SAF-C515C-8EM CA-Step	SP000106400	PG-MQFP-80-1	
SAF-C868-1SG BA-Step	SP000013636	P-DSO-28-1	8-Kbyte on-chip program SRAM, 256-byte RAM, 256-byte XRAM, three 16-bit timers/counters, PWM unit (CAPCOM6E), 8-bit ADC, oscillator watchdog, watchdog timer, 40-MHz clock frequency, -40°C to 85°C, tape & reel
SAK-C868-1SG BA-Step	SP000014356	P-DSO-28-1	as SAF-C868-1SG, -40°C to 125°C, tape & reel
▼ SAF-C868-1SR BA-Step	SP000013637	PG-TSSOP-38-1	as SAF-C868-1SG, P-TSSOP package, tape & reel
SAK-C868-1SR BA-Step	SP000014357	PG-TSSOP-38-1	as SAF-C868-1SR, -40°C to 125°C, tape & reel
SAF-C868P-1SR BA-Step	SP000013638	PG-TSSOP-38-1	as SAF-C868-1SR, with Code Protection, tape & reel
SAK-C868P-1SR BA-Step	SP000014358	PG-TSSOP-38-1	as SAF-C868P-1SR, -40°C to 125°C, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Package	Description
<b>Microcontrollers, 8-bit</b> (cont'd)			
▼ SAF-XC866-2FRI (industry) BC-Step	SP000210683	PG-TSSOP-38-1	High performance XC800 core, based on industry standard 8051 architecture, 8-Kbyte boot ROM, 8-Kbyte flash (4-Kbyte program flash, 4-Kbyte data flash), automotive quality level, 256-byte RAM, 512-byte XRAM, capture compare unit, three 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, -40°C to 85°C, tape & reel
SAF-XC866-4FRI (industry) BC-Step	SP000057470	PG-TSSOP-38-1	as SAF-XC866-2FRA, 16-Kbyte flash (12-Kbyte program flash, 4-Kbyte data flash), industry quality level, tape & reel
▼ SAK-XC866-4FRI (industry) BC-Step	SP000210680	PG-TSSOP-38-1	as SAF-XC866-4FRI, -40°C to 125°C, tape & reel
▼ SAF-XC886-6FFA (automotive)	SP000210975	PG-TQFP-48-4	High performance XC800 core, based on industry standard 8051 architecture, 24-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), -40°C to 85°C, tape & reel
▼ SAK-XC886-6FFA (automotive)	SP000210978	PG-TQFP-48-4	as SAF-XC886-6FFA, -40°C to 125°C, tape & reel
▼ SAF-XC886-6FFI (industry)	SP000216467	PG-TQFP-48-4	as SAF-XC886-6FFA, industry quality level, tape & reel
▼ SAF-XC886-6FFI (industry) AB-Step	SP000217345	PG-TQFP-48-4	as SAF-XC886-6FFI, AB-step, tape & reel
▼ SAF-XC886-8FFA (automotive)	SP000210968	PG-TQFP-48-4	High performance XC800 core, based on industry standard 8051 architecture, 32-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), -40°C to 85°C, tape & reel
▼ SAK-XC886-8FFA (automotive)	SP000210971	PG-TQFP-48-4	as SAF-XC886-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC886-8FFI (industry)	SP000216470	PG-TQFP-48-4	as SAF-XC886-8FFA, industry quality level, tape & reel
▼ SAF-XC886-8FFI (industry) AB-Step	SP000217349	PG-TQFP-48-4	as SAF-XC886-8FFI, AB-step, tape & reel



SMD = Surface Mounted Device

# Microcontrollers

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Type	Ordering Code	Package	Description
<b>Microcontrollers, 8-bit</b> (cont'd)			
▼ SAF-XC886C-8FFA (automotive)	SP000210961	PG-TQFP-48-4	High performance XC800 core, based on industry standard 8051 architecture, 32-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, MultiCAN with 2 nodes, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), -40°C to 85°C, tape & reel
▼ SAK-XC886C-8FFA (automotive)	SP000106749	PG-TQFP-48-4	as SAF-XC886C-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC886C-8FFI (industry)	SP000216464	PG-TQFP-48-4	as SAF-XC886C-8FFA, industry quality level, tape & reel
▼ SAF-XC886C-8FFI (industry) AB-Step	SP000217340	PG-TQFP-48-4	as SAF-XC886C-8FFI, AB-step, tape & reel
▼ SAF-XC886CLM-8FFA (automotive)	SP000106748	PG-TQFP-48-4	as SAF-XC886C-8FFA, with LIN BSL support, MDU module, tape & reel
▼ SAK-XC886CLM-8FFA (automotive)	SP000210964	PG-TQFP-48-4	as SAF-XC886CLM-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC886CLM-8FFI (industry)	SP000216465	PG-TQFP-48-4	as SAF-XC886CLM-8FFA, industry quality level, tape & reel
▼ SAF-XC886CLM-8FFI (industry) AB-Step	SP000217341	PG-TQFP-48-4	as SAF-XC886CLM-8FFI, AB-step, tape & reel
▼ SAF-XC886CM-8FFA (automotive)	SP000210962	PG-TQFP-48-4	as SAF-XC886C-8FFA, with MDU, tape & reel
▼ SAK-XC886CM-8FFA (automotive)	SP000210965	PG-TQFP-48-4	as SAF-XC886CM-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC886CM-8FFI (industry)	SP000216466	PG-TQFP-48-4	as SAF-XC886CM-8FFA, industry quality level, tape & reel
▼ SAF-XC886CM-8FFI (industry) AB-Step	SP000217342	PG-TQFP-48-4	as SAF-XC886CM-8FFI, AB-step, tape & reel
▼ SAF-XC886LM-6FFA (automotive)	SP000210974	PG-TQFP-48-4	High performance XC800 core, based on industry standard 8051 architecture, 24-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), with LIN BSL support, MDU module, -40°C to 85°C, tape & reel
▼ SAK-XC886LM-6FFA (automotive)	SP000210977	PG-TQFP-48-4	as SAF-XC886LM-6FFA, -40°C to 125°C, tape & reel
▼ SAF-XC886LM-6FFI (industry)	SP000216468	PG-TQFP-48-4	as SAF-XC886LM-6FFA, industry quality level, tape & reel
▼ SAF-XC886LM-6FFI (industry) AB-Step	SP000217347	PG-TQFP-48-4	as SAF-XC886LM-6FFI, AB-step, tape & reel
▼ SAF-XC886LM-8FFA (automotive)	SP000210967	PG-TQFP-48-4	as SAF-XC886LM-6FFA, 32-Kbyte flash memory, tape & reel
▼ SAK-XC886LM-8FFA (automotive)	SP000210970	PG-TQFP-48-4	as SAF-XC886LM-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC886LM-8FFI (industry)	SP000216471	PG-TQFP-48-4	as SAF-XC886LM-8FFA, industry quality level, tape & reel
▼ SAF-XC886LM-8FFI (industry) AB-Step	SP000217348	PG-TQFP-48-4	as SAF-XC886LM-8FFI, AB-step, tape & reel

SMD = Surface Mounted Device



# Microcontrollers



Type	Ordering Code	Package	Description
<b>Microcontrollers, 8-bit</b> (cont'd)			
▼ SAF-XC888-6FFA (automotive)	SP000210989	PG-TQFP-64-8	High performance XC800 core, based on industry standard 8051 architecture, 24-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), -40°C to 85°C, tape & reel
▼ SAK-XC888-6FFA (automotive)	SP000210995	PG-TQFP-64-8	as SAF-XC888-6FFA, -40°C to 125°C, tape & reel
▼ SAF-XC888-6FFI (industry)	SP000216477	PG-TQFP-64-8	as SAF-XC888-6FFA, industry quality level, tape & reel
▼ SAF-XC888-8FFA (automotive)	SP000210986	PG-TQFP-64-8	as SAF-XC888-6FFA, 32-Kbyte flash memory, tape & reel
▼ SAK-XC888-8FFA (automotive)	SP000210992	PG-TQFP-64-8	as SAF-XC888-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC888-8FFI (industry)	SP000216479	PG-TQFP-64-8	as SAF-XC888-8FFA, industry quality level, tape & reel
▼ SAF-XC888C-8FFA (automotive)	SP000210980	PG-TQFP-64-8	High performance XC800 core, based on industry standard 8051 architecture, 32-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, MultiCAN with 2 nodes, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), -40°C to 85°C, tape & reel
▼ SAK-XC888C-8FFA (automotive)	SP000098771	PG-TQFP-64-8	as SAF-XC888C-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC888C-8FFI (industry)	SP000216474	PG-TQFP-64-8	as SAF-XC888C-8FFA, industry quality level, tape & reel
▼ SAF-XC888CLM-8FFA (automotive)	SP000210979	PG-TQFP-64-8	as SAF-XC888C-8FFA, with LIN BSL support, MDU module, tape & reel
▼ SAK-XC888CLM-8FFA (automotive)	SP000210982	PG-TQFP-64-8	as SAF-XC888CLM-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC888CLM-8FFI (industry)	SP000216475	PG-TQFP-64-8	as SAF-XC888CLM-8FFA, industry quality level, tape & reel
▼ SAF-XC888CM-8FFA (automotive)	SP000210981	PG-TQFP-64-8	as SAF-XC888C-8FFA, with MDU, tape & reel
▼ SAK-XC888CM-8FFA (automotive)	SP000210983	PG-TQFP-64-8	as SAF-XC888CM-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC888CM-8FFI (industry)	SP000216476	PG-TQFP-64-8	as SAF-XC886CM-8FFA, industry quality level, tape & reel
▼ SAF-XC888LM-6FFA (automotive)	SP000210988	PG-TQFP-64-8	High performance XC800 core, based on industry standard 8051 architecture, 24-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), with LIN BSL support, MDU module, -40°C to 85°C, tape & reel
▼ SAK-XC888LM-6FFA (automotive)	SP000210994	PG-TQFP-64-8	as SAF-XC888LM-6FFA, -40°C to 125°C, tape & reel
▼ SAF-XC888LM-6FFI (industry)	SP000216478	PG-TQFP-64-8	as SAF-XC888LM-6FFA, industry quality level, tape & reel
▼ SAF-XC888LM-8FFA (automotive)	SP000210985	PG-TQFP-64-8	High performance XC800 core, based on industry standard 8051 architecture, 32-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), with LIN BSL support, MDU module, -40°C to 85°C, tape & reel
▼ SAK-XC888LM-8FFA (automotive)	SP000210991	PG-TQFP-64-8	as SAF-XC888LM-8FFA, -40°C to 125°C, tape & reel
▼ SAF-XC888LM-8FFI (industry)	SP000216480	PG-TQFP-64-8	as SAF-XC888LM-8FFA, industry quality level, tape & reel

SMD = Surface Mounted Device

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## Power Semiconductors

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# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel Enhancement Types (SIPMOS®)

#### Low Voltage MOSFETs 50 V

BSP 295	SP000011105	SOT223	50	0.3000	0.8 ... 2.0	1.80
▼ BSP 295 G	SP000089210	SOT223	50	0.3000	0.8 ... 2.0	1.80

### N-Channel Enhancement Types (SIPMOS®)

#### Low Voltage MOSFETs 55 V

▼ SPB 80N06S-08	SP000054056	P-TO263-3-2	55	0.0077	2.1 ... 4.0	80
▼ SPI 80N06S-08	SP000054055	P-TO262-3-1	55	0.0077	2.1 ... 4.0	80

### N-Channel Enhancement Types (SIPMOS®)

#### Low Voltage MOSFETs 60 V

BSP 615N	SP000011097	P-DSO-8-5	60	0.1500	1.2 ... 2.0	2.60
▼ BSP 615N G	SP000216316	PG-DSO-8-5	60	0.1500	1.2 ... 2.0	2.60
BSP 318S	SP000011112	SOT23	60	0.1500	1.2 ... 2.0	2.60
▼ BSP 318S G	SP000235371	SOT23	60	0.1500	1.2 ... 2.0	2.60
BSP 320S E-6327	SP000011115	SOT23	60	0.1200	2.1 ... 4.0	2.90
▼ BSP 320S E-6433	SP000011116	SOT23	60	0.1200	2.1 ... 4.0	2.90
BSP 320S G E-6327	SP000235375	SOT23	60	0.1200	2.1 ... 4.0	2.90
▼ BSP 320S G E-6433	SP000235376	SOT23	60	0.1200	2.1 ... 4.0	2.90
BSS 138N E-6327	SP000014560	SOT23	60	3.5000	0.6 ... 1.4	0.23
▼ BSS 138N G E-6327	SP000074207	SOT23	60	3.5000	0.6 ... 1.4	0.23
BSS 138N E-6433	SP000014561	SOT23	60	3.5000	0.6 ... 1.4	0.23
▼ BSS 138N E-6908	SP000014564	SOT23	60	3.5000	0.6 ... 1.4	0.23
▼ BSS 138N E-7854	SP000014562	SOT23	60	3.5000	0.6 ... 1.4	0.23
▼ BSS 138N E-8004	SP000014563	SOT23	60	3.5000	0.6 ... 1.4	0.23
BSS 138W E-6327	SP000014283	SOT323	60	3.5000	0.6 ... 1.4	0.28
▼ BSS 138W E-6433	SP000014284	SOT323	60	3.5000	0.6 ... 1.4	0.28
BSS 7728N	SP000014637	SOT23	60	5.0000	1.3 ... 2.3	0.20
SN 7002N E-6327	SP000014634	SOT23	60	5.0000	0.8 ... 1.8	0.20
SN 7002N E-6433	SP000014635	SOT23	60	5.0000	0.8 ... 1.8	0.20
▼ SN 7002N G E-6327	SP000074235	SOT23	60	5.0000	0.8 ... 1.8	0.20
▼ SN 7002N G E-6433	SP000076522	SOT23	60	5.0000	0.8 ... 1.8	0.20
SN 7002W E-6327	SP000014285	SOT323	60	5.0000	0.8 ... 1.8	0.23
▼ SN 7002W E-6433	SP000014286	SOT323	60	5.0000	0.8 ... 1.8	0.23

### N-Channel Enhancement Types (SIPMOS®)

#### Low Voltage MOSFETs 100 V

BSP 123	SP000011099	SOT223	100	6.000	0.8 ... 2.0	0.38
▼ BSP 123 G	SP000089202	SOT223	100	6.000	0.8 ... 2.0	0.38
BSP 296 G E-6327	SP000011106	SOT223	100	0.800	0.8 ... 2.0	1.00
▼ BSP 296 E-6433	SP000011107	SOT223	100	0.800	0.8 ... 2.0	1.00
▼ BSP 296 G E-6327	SP000089209	SOT223	100	0.800	0.8 ... 2.0	1.00
▼ BSP 296 G E-6433	SP000089212	SOT223	100	0.800	0.8 ... 2.0	1.00
BSP 372	SP000011120	SOT223	100	0.310	0.8 ... 2.0	1.70
▼ BSP 372 G	SP000087064	SOT223	100	0.310	0.8 ... 2.0	1.70

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel Enhancement Types (SIPMOS®)

#### Low Voltage MOSFETs 100 V

(cont'd)

BSP 373	SP000011121	SOT223	100	0.300	2.1 ... 4.0	1.70
▼ BSP 373 G	SP000087065	SOT223	100	0.300	2.1 ... 4.0	1.70
BSS 119 E -6327	SP000011161	SOT23	100	6.000	1.6 ... 2.6	0.17
▼ BSS 119 E-6433	SP000011164	SOT23	100	6.000	1.6 ... 2.6	0.17
▼ BSS 119 E-7796	SP000011162	SOT23	100	6.000	1.6 ... 2.6	0.17
▼ BSS 119 E-7978	SP000011163	SOT23	100	6.000	1.6 ... 2.6	0.17
BSS 123 E-6327	SP000011165	SOT23	100	6.000	0.8 ... 2.0	0.17
▼ BSS 123 G E-6327	SP000084574	SOT23	100	6.000	0.8 ... 2.0	0.17
▼ BSS 123 E-6433	SP000011166	SOT23	100	6.000	0.8 ... 2.0	0.17
▼ BSS 123 E-7874	SP000011167	SOT23	100	6.000	0.8 ... 2.0	0.17
■ BUZ 344	SP000011354	P-TO218-3-1	100	0.035	2.1 ... 4.0	46
■ BUZ 345	SP000011355	P-TO218-3-1	100	0.045	2.1 ... 4.0	41
■ BUZ 349	SP000011356	P-TO218-3-1	100	0.060	2.1 ... 4.0	32
SPB 10N10	SP000013845	P-TO263-3-2	100	0.170	2.1 ... 4.0	10.3
▼ SPB 10N10 G	SP000102170	PG-TO263-3-2	100	0.170	2.1 ... 4.0	10.3
SPB 10N10L	SP000013836	P-TO263-3-2	100	0.154	1.2 ... 2.0	10.3
▼ SPB 10N10L G	SP000102169	PG-TO263-3-2	100	0.154	1.2 ... 2.0	10.3
SPB 21N10	SP000013626	P-TO263-3-2	100	0.080	2.1 ... 4.0	21
▼ SPB 21N10 G	SP000102171	PG-TO263-3-2	100	0.080	2.1 ... 4.0	21
SPB 35N10	SP000013627	P-TO263-3-2	100	0.044	2.1 ... 4.0	35
▼ SPB 35N10 G	SP000102172	PG-TO263-3-2	100	0.044	2.1 ... 4.0	35
SPB 47N10	SP000012327	P-TO263-3-2	100	0.033	2.1 ... 4.0	47
SPB 47N10L	SP000012078	P-TO263-3-2	100	0.026	1.2 ... 2.0	47
SPB 70N10L	SP000012079	P-TO263-3-2	100	0.016	1.2 ... 2.0	70
SPB 80N10L	SP000014350	P-TO263-3-2	100	0.014	1.2 ... 2.0	80
▼ SPB 80N10L G	SP000102173	PG-TO263-3-2	100	0.014	1.2 ... 2.0	80
SPD 11N10	SP000013847	P-TO252-3-1	100	0.179	2.1 ... 4.0	10.5
SPD 35N10	SP000013853	P-TO252-3-1	100	0.044	2.1 ... 4.0	35
SPI 10N10	SP000013846	P-TO262-3-1	100	0.170	2.1 ... 4.0	10.3
SPI 10N10L	SP000013850	P-TO262-3-1	100	0.154	1.2 ... 2.0	10.3
SPI 21N10	SP000013843	P-TO262-3-1	100	0.080	2.1 ... 4.0	21
SPI 35N10	SP000013852	P-TO262-3-1	100	0.044	2.1 ... 4.0	35
SPI 47N10	SP000013951	P-TO262-3-1	100	0.033	2.1 ... 4.0	47
▼ SPI 47N10L	SP000013952	P-TO262-3-1	100	0.026	1.2 ... 2.0	47
▼ SPI 70N10L	SP000014005	P-TO262-3-1	100	0.016	1.2 ... 2.0	70
SPI 80N10L	SP000014351	P-TO262-3-1	100	0.014	1.2 ... 2.0	80
SPP 10N10	SP000013844	P-TO220-3-1	100	0.170	2.1 ... 4.0	10.3
SPP 10N10L	SP000013849	P-TO220-3-1	100	0.154	1.2 ... 2.0	10.3
SPP 21N10	SP000013842	P-TO220-3-1	100	0.080	2.1 ... 4.0	21
SPP 35N10	SP000013851	P-TO220-3-1	100	0.044	2.1 ... 4.0	35
SPP 47N10	SP000012415	P-TO220-3-1	100	0.033	2.1 ... 4.0	47
SPP 47N10L	SP000012102	P-TO220-3-1	100	0.026	1.2 ... 2.0	47
SPP 70N10L	SP000012103	P-TO220-3-1	100	0.016	1.2 ... 2.0	70
SPP 80N10L	SP000014349	P-TO220-3-1	100	0.014	1.2 ... 2.0	80
▼ SPU 11N10	SP000013848	P-TO220-3-1	100	0.179	2.1 ... 4.0	10.5

SMD = Surface Mounted Device



# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel Enhancement Types (SIPMOS®) (for industrial applications)

#### Low Voltage MOSFETs 100 V

▼ IPB 70N10SL-16	SP000225700	PG-TO263-3-2	100	0.016	1.2 ... 2.0	70
▼ IPP 70N10SL-16	SP000225708	PG-TO220-3-1	100	0.016	1.2 ... 2.0	70

### N-Channel Enhancement Types (SIPMOS®)

#### Low Voltage MOSFETs 100 V

BSP 297	SP000011108	SOT223	200	2.00	0.8 ... 2.0	0.65
▼ BSP 297 G	SP000089213	SOT223	200	2.00	0.8 ... 2.0	0.65
BUZ 30A	SP000011336	P-TO220-3-1	200	0.13	2.4 ... 4.0	21
▼ BUZ 30A E-3045A	SP000011337	P-TO263-3-1	200	0.13	2.4 ... 4.0	21
▼ BUZ 30A E-3045A	SP000102176	PG-TO263-3-1	200	0.13	2.4 ... 4.0	21
BUZ 31	SP000011341	P-TO220-3-1	200	0.20	2.4 ... 4.0	13.5
▼ BUZ 31 E-3045A	SP000011343	P-TO263-3-2	200	0.20	2.4 ... 4.0	13.5
▼ BUZ 31 E-3045A	SP000102175	PG-TO263-3-2	200	0.20	2.4 ... 4.0	13.5
▼ BUZ 31 E-3046	SP000011344	PG-TO263-3-2	200	0.20	2.4 ... 4.0	13.5
BUZ 31L	SP000011342	P-TO220-3-1	200	0.20	1.2 ... 2.0	13.5
▼ BUZ 31L E-3045A	SP000011961	P-TO263-3-2	200	0.20	1.2 ... 2.0	13.5
BUZ 32	SP000011345	P-TO220-3-1	200	0.40	2.4 ... 4.0	9.50
▼ BUZ 32 E-3045A	SP000011346	P-TO263-3-2	200	0.40	2.4 ... 4.0	9.50
▼ BUZ 32 E-3045A	SP000102174	PG-TO263-3-2	200	0.40	2.4 ... 4.0	9.50
BUZ 73	SP000011372	P-TO220-3-1	200	0.40	2.4 ... 4.0	7.00
▼ BUZ 73 E-3046	SP000011963	P-TO220-3-1	200	0.40	2.4 ... 4.0	7.00
BUZ 73A	SP000011373	P-TO220-3-1	200	0.60	2.4 ... 4.0	5.80
▼ BUZ 73A E-3046	SP000011962	P-TO220-3-1	200	0.60	2.4 ... 4.0	5.80
BUZ 73AL	SP000011375	P-TO220-3-1	200	0.60	1.2 ... 2.0	5.80
BUZ 73L	SP000011374	P-TO220-3-1	200	0.40	1.2 ... 2.0	7.00
■ BUZ 341	SP000011353	P-TO218-3-1	200	0.07	2.1 ... 4.0	33
■ BUZ 350	SP000011357	P-TO218-3-1	200	0.12	2.1 ... 4.0	22
SPD 07N20	SP000012080	P-TO252-3-1	200	0.40	2.1 ... 4.0	7.00
▼ SPD 07N20	SP000077394	PG-TO252-3-1	200	0.40	2.1 ... 4.0	7.00

### N-Channel Enhancement Types (SIPMOS®)

#### Low Voltage MOSFETs 240 V

BSP 88	SP000011159	SOT223	240	8.00	0.6 ... 1.20	0.32
▼ BSP 88 G	SP000089217	SOT223	240	8.00	0.6 ... 1.20	0.32
BSP 89	SP000011160	SOT223	240	6.00	0.8 ... 2.00	0.36
▼ BSP 89 G	SP000089216	SOT223	240	6.00	0.8 ... 2.00	0.36
BSS 87 E-6327	SP000011182	SOT89	240	6.00	0.8 ... 2.0	0.29
▼ BSS 87 G E-6327	SP000095794	SOT89	240	6.00	0.8 ... 2.0	0.29
▼ BSS 87 E-6433	SP000082233	SOT89	240	6.00	0.8 ... 2.0	0.29
BSS 131 E-6327	SP000011168	SOT23	240	16.00	0.8 ... 2.0	0.10

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel Enhancement Types (OptiMOS®) Low Voltage MOSFETs 30 V

BSO 4410	SP000013453	P-DSO-8-1	30	0.0130	1.2 ... 2.0	11
▼ BSO 4410 G	SP000077498	PG-DSO-8-1	30	0.0130	1.2 ... 2.0	11
BSO 4420	SP000013336	P-DSO-8-1	30	0.0078	1.2 ... 2.0	13
▼ BSO 4420 G	SP000077585	PG-DSO-8-1	30	0.0078	1.2 ... 2.0	13
BSO 4804	SP000013606	P-DSO-8-1	30	0.0200	1.2 ... 2.0	13.5
▼ BSO 4804 G	SP000077616	PG-DSO-8-1	30	0.0200	1.2 ... 2.0	13.5
▼ BSO 4822	SP000080997	PG-DSO-8-1	30	0.0100	1.2 ... 2.0	21
▼ SPB 42N03S2L-13 G	SP000200137	PG-TO263-3-2	30	0.0120	1.2 ... 2.0	42
SPB 73N03S2L-08	SP000016257	P-TO263-3-2	30	0.0080	1.2 ... 2.0	73
▼ SPB 73N03S2L-08 G	SP000200138	PG-TO263-3-2	30	0.0080	1.2 ... 2.0	73
SPB 80N03S2-03	SP000016251	P-TO263-3-2	30	0.0034	1.2 ... 2.0	80
▼ SPB 80N03S2-03 G	SP000200139	PG-TO263-3-2	30	0.0034	1.2 ... 2.0	80
SPB 80N03S2L-03	SP000016252	P-TO263-3-2	30	0.0031	1.2 ... 2.0	80
▼ SPB 80N03S2L-03 G	SP000200142	PG-TO263-3-2	30	0.0031	1.2 ... 2.0	80
SPB 80N03S2L-04	SP000013901	P-TO263-3-2	30	0.0043	1.2 ... 2.0	80
▼ SPB 80N03S2L-04 G	SP000200143	PG-TO263-3-2	30	0.0043	1.2 ... 2.0	80
▼ SPB 80N03S2L-05 G	SP000200144	PG-TO263-3-2	30	0.0052	1.2 ... 2.0	80
SPB 80N03S2L-06	SP000016264	P-TO263-3-2	30	0.0059	1.2 ... 2.0	80
▼ SPB 80N03S2L-06 G	SP000200145	PG-TO263-3-2	30	0.0059	1.2 ... 2.0	80
SPB 100N03S2-03	SP000016260	P-TO263-3-2	30	0.0033	2.1 ... 4.0	100
▼ SPB 100N03S2-03 G	SP000200140	PG-TO263-3-2	30	0.0033	2.1 ... 4.0	100
SPB 100N03S2L-03	SP000013460	P-TO263-3-2	30	0.0030	1.2 ... 2.0	100
▼ SPB 100N03S2L-03 G	SP000200141	PG-TO263-3-2	30	0.0030	1.2 ... 2.0	100
SPD 30N03S2L-07	SP000013749	P-TO252-3-11	30	0.0067	1.2 ... 2.0	30
▼ SPD 30N03S2L-07 G	SP000077583	PG-TO252-3-11	30	0.0067	1.2 ... 2.0	30
SPD 30N03S2L-10	SP000016254	P-TO252-3-11	30	0.0100	1.2 ... 2.0	30
▼ SPD 30N03S2L-10 G	SP000077499	PG-TO252-3-11	30	0.0100	1.2 ... 2.0	30
SPD 30N03S2L-20	SP000013488	P-TO252-3-11	30	0.0200	1.2 ... 2.0	30
SPD 50N03S2-07	SP000016253	P-TO252-3-11	30	0.0073	2.1 ... 4.0	50
▼ SPD 50N03S2-07 G	SP000077579	PG-TO252-3-11	30	0.0073	2.1 ... 4.0	50
▼ SPD 50N03S2L-06 G	SP000077584	PG-TO252-3-11	30	0.0064	1.2 ... 2.0	50
SPI 42N03S2L-13	SP000013897	P-TO262-3-1	30	0.0129	1.2 ... 2.0	42
SPI 73N03S2L-08	SP000016263	P-TO262-3-1	30	0.0084	1.2 ... 2.0	73
SPI 80N03S2-03	SP000016262	P-TO262-3-1	30	0.0033	2.1 ... 4.0	100
SPI 80N03S2L-03	SP000016261	P-TO262-3-1	30	0.0031	1.2 ... 2.0	80
SPI 80N03S2L-04	SP000013903	P-TO262-3-1	30	0.0043	1.2 ... 2.0	80
SPI 80N03S2L-05	SP000016266	P-TO262-3-1	30	0.0052	1.2 ... 2.0	80
SPI 80N03S2L-06	SP000016265	P-TO262-3-1	30	0.0062	1.2 ... 2.0	80
SPI 100N03S2-03	SP000013492	P-TO262-3-1	30	0.0033	2.1 ... 4.0	100
SPI 100N03S2L-03	SP000013491	P-TO262-3-1	30	0.0030	1.2 ... 2.0	100
SPP 42N03S2L-13	SP000013464	P-TO220-3-1	30	0.0120	1.2 ... 2.0	42
SPP 73N03S2L-08	SP000013465	P-TO220-3-1	30	0.0080	1.2 ... 2.0	73

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel Enhancement Types (OptiMOS®)

#### Low Voltage MOSFETs 30 V

(cont'd)

SPP 80N03S2-03	SP000012468	P-TO220-3-1	30	0.0034	2.1 ... 4.0	80
SPP 80N03S2L-03	SP000012469	P-TO220-3-1	30	0.0031	1.2 ... 2.0	80
SPP 80N03S2L-04	SP000013902	P-TO220-3-1	30	0.0043	1.2 ... 2.0	80
SPP 80N03S2L-05	SP000013466	P-TO220-3-1	30	0.0050	1.2 ... 2.0	80
SPP 80N03S2L-06	SP000014061	P-TO220-3-1	30	0.0062	1.2 ... 2.0	80
SPP 100N03S2-03	SP000013463	P-TO220-3-1	30	0.0033	2.1 ... 4.0	100
SPP 100N03S2L-03	SP000013462	P-TO220-3-1	30	0.0030	1.2 ... 2.0	100
SPU 30N03S2-08	SP000014129	P-TO251-3-1	30	0.0082	2.1 ... 4.0	30
SPU 30N03S2L-10	SP000013467	P-TO251-3-1	30	0.0100	1.2 ... 2.0	30

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### N-Channel Enhancement Types (OptiMOS®)

#### Low Voltage MOSFETs 40 V

SPB 80N04S2-04	SP000016353	P-TO263-3-2	40	0.0039	2.1 ... 4.0	80
SPB 80N04S2-H4	SP000016358	P-TO263-3-2	40	0.0040	2.1 ... 4.0	80
SPB 80N04S2L-03	SP000016354	P-TO263-3-2	40	0.0036	1.2 ... 2.0	80
SPB 100N04S2-04	SP000013711	P-TO263-3-2	40	0.0036	2.1 ... 4.0	100
SPB 100N04S2L-03	SP000013712	P-TO263-3-2	40	0.0033	1.2 ... 2.0	100
SPB 160N04S2-03	SP000014263	P-TO263-7-3	40	0.0029	2.1 ... 4.0	160
SPB 160N04S2L-03	SP000014639	P-TO263-3-2	40	0.0027	1.2 ... 2.0	160
SPI 80N04S2-04	SP000015085	P-TO262-3-1	40	0.0034	2.1 ... 4.0	80
SPP 80N04S2-04	SP000012470	P-TO220-3-1	40	0.0039	2.1 ... 4.0	80
SPP 80N04S2-H4	SP000013150	P-TO220-3-1	40	0.0040	2.1 ... 4.0	80
SPP 80N04S2L-03	SP000012472	P-TO220-3-1	40	0.0036	1.2 ... 2.0	80
SPP 100N04S2-04	SP000013718	P-TO220-3-1	40	0.0036	2.1 ... 4.0	100
SPP 100N04S2L-03	SP000013719	P-TO220-3-1	40	0.0033	1.2 ... 2.0	100

### N-Channel Enhancement Types (OptiMOS®) (for industrial applications)

#### Low Voltage MOSFETs 40 V

▼ IPB 80N04S2-H4	SP000218165	PG-TO263-3-2	40	0.0040	2.1 ... 4.0	80
▼ IPB 80N04S2L-03	SP000220158	PG-TO263-3-2	40	0.0036	1.2 ... 2.0	80
▼ IPB 100N04S2-04	SP000219061	PG-TO263-3-2	40	0.0036	2.1 ... 4.0	100
▼ IPB 100N04S2L-03	SP000219065	PG-TO263-3-2	40	0.0033	1.2 ... 2.0	100
▼ IPB 160N04S2-03	SP000218151	PG-TO263-7-3	40	0.0029	2.1 ... 4.0	160
▼ IPB 160N04S2L-03	SP000218153	PG-TO263-7-3	40	0.0027	1.2 ... 2.0	160
▼ IPI 80N04S2-04	SP000219058	PG-TO262-3-1	40	0.0034	2.1 ... 4.0	80
▼ IPP 80N04S2-04	SP000219054	PG-TO220-3-1	40	0.0039	2.1 ... 4.0	80
▼ IPP 80N04S2-H4	SP000218169	PG-TO220-3-1	40	0.0040	2.1 ... 4.0	80
▼ IPP 80N04S2L-03	SP000219063	PG-TO220-3-1	40	0.0036	1.2 ... 2.0	80
▼ IPP 100N04S2-04	SP000219056	PG-TO220-3-1	40	0.0036	2.1 ... 4.0	100
▼ IPP 100N04S2L-03	SP000219062	PG-TO220-3-1	40	0.0033	1.2 ... 2.0	100

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel Enhancement Types (OptiMOS®)

#### Low Voltage MOSFETs 55 V

BSO 604NS2	SP000013128	P-DSO-8-5	55	0.0350	1.2 ... 2.0	5.00
BSP 603S2L	SP000013597	SOT223	55	0.0330	1.2 ... 2.0	5.20
BSP 615S2L	SP000013181	SOT223	55	0.0900	1.2 ... 2.0	2.80
BSS 670S2L	SP000013197	SOT23	55	0.6500	1.2 ... 2.0	0.54
SPB 77N06S2-12	SP000013587	P-TO263-3-2	55	0.0120	2.1 ... 4.0	77
SPB 80N06S2-05	SP000016351	P-TO263-3-2	55	0.0051	2.1 ... 4.0	80
SPB 80N06S2-07	SP000013578	P-TO263-3-2	55	0.0066	2.1 ... 4.0	80
SPB 80N06S2-08	SP000016356	P-TO263-3-2	55	0.0080	2.1 ... 4.0	80
SPB 80N06S2-09	SP000013581	P-TO263-3-2	55	0.0091	2.1 ... 4.0	80
SPB 80N06S2-H5	SP000013795	P-TO263-3-2	55	0.0055	2.1 ... 4.0	80
SPB 80N06S2L-05	SP000016352	P-TO263-3-2	55	0.0048	1.2 ... 2.0	80
SPB 80N06S2L-06	SP000013577	P-TO263-3-2	55	0.0063	1.2 ... 2.0	80
SPB 80N06S2L-07	SP000016357	P-TO263-3-2	55	0.0070	1.2 ... 2.0	80
SPB 80N06S2L-09	SP000013582	P-TO263-3-2	55	0.0085	1.2 ... 2.0	80
SPB 80N06S2L-11	SP000013586	P-TO263-3-2	55	0.0110	1.2 ... 2.0	80
SPB 80N06S2L-H5	SP000013796	P-TO263-3-2	55	0.0050	1.2 ... 2.0	80
SPB 100N06S2-05	SP000013713	P-TO263-3-2	55	0.0050	2.1 ... 4.0	100
SPB 100N06S2L-05	SP000013714	P-TO263-3-2	55	0.0047	1.2 ... 2.0	100
SPD 14N06S2-80	SP000013575	P-TO252-3-1	55	0.0800	2.1 ... 4.0	14
SPD 15N06S2L-64	SP000013573	P-TO252-3-1	55	0.0640	1.2 ... 2.0	15
SPD 25N06S2-40	SP000013572	P-TO252-3-1	55	0.0400	2.1 ... 4.0	25
SPD 26N06S2L-35	SP000013570	P-TO252-3-1	55	0.0350	1.2 ... 2.0	26
SPD 30N06S2-15	SP000012477	P-TO252-3-1	55	0.0147	2.1 ... 4.0	30
SPD 30N06S2-23	SP000013596	P-TO252-3-1	55	0.0230	2.1 ... 4.0	30
SPD 30N06S2L-13	SP000012478	P-TO252-3-1	55	0.0130	1.2 ... 2.0	30
SPD 30N06S2L-23	SP000013127	P-TO252-3-1	55	0.0230	1.2 ... 2.0	30
SPD 50N06S2-14	SP000013569	P-TO252-3-1	55	0.0144	2.1 ... 4.0	50
SPD 50N06S2L-13	SP000013568	P-TO252-3-1	55	0.0127	1.2 ... 2.0	50
SPI 80N06S2-07	SP000013784	P-TO262-3-1	55	0.0066	2.1 ... 4.0	80
SPI 80N06S2-08	SP000013911	P-TO262-3-1	55	0.0080	2.1 ... 4.0	80
SPI 80N06S2L-05	SP000016360	P-TO262-3-1	55	0.0045	1.2 ... 2.0	80
▼ SPI 80N06S2L-11	SP000029960	P-TO262-3-1	55	0.0110	1.2 ... 2.0	80
SPP 77N06S2-12	SP000013588	P-TO220-3-1	55	0.0120	2.1 ... 4.0	77
▼ SPP 80N06S-08	SP000054054	P-TO220-3-1	55	0.0077	2.1 ... 4.0	80
SPP 80N06S2-05	SP000012473	P-TO220-3-1	55	0.0051	2.1 ... 4.0	80
SPP 80N06S2-07	SP000013579	P-TO220-3-1	55	0.0120	2.1 ... 4.0	80
SPP 80N06S2-08	SP000012822	P-TO220-3-1	55	0.0080	2.1 ... 4.0	80
SPP 80N06S2-09	SP000013583	P-TO220-3-1	55	0.0091	2.1 ... 4.0	80
SPP 80N06S2-H5	SP000014000	P-TO220-3-1	55	0.0055	2.1 ... 4.0	80
SPP 80N06S2L-05	SP000012474	P-TO220-3-1	55	0.0048	1.2 ... 2.0	80
SPP 80N06S2L-06	SP000013576	P-TO220-3-1	55	0.0063	1.2 ... 2.0	80
SPP 80N06S2L-07	SP000012823	P-TO220-3-1	55	0.0070	1.2 ... 2.0	80
SPP 80N06S2L-09	SP000013580	P-TO220-3-1	55	0.0085	1.2 ... 2.0	80
SPP 80N06S2L-11	SP000013584	P-TO220-3-1	55	0.0110	1.2 ... 2.0	80
SPP 80N06S2L-H5	SP000014001	P-TO220-3-1	55	0.0050	1.2 ... 2.0	80
SPP 100N06S2-05	SP000013720	P-TO220-3-1	55	0.0050	2.1 ... 4.0	100
SPP 100N06S2L-05	SP000013721	P-TO220-3-1	55	0.0047	1.2 ... 2.0	100

SMD = Surface Mounted Device



# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel Enhancement Types (OptiMOS®) (for industrial applications)

#### Low Voltage MOSFETs 55V

▼ IPB 77N06S2-12	SP000218173	PG-TO263-3-2	55	0.0120	2.1 ... 4.0	77
▼ IPB 80N06S2-05	SP000218877	PG-TO263-3-2	55	0.0051	2.1 ... 4.0	80
▼ IPB 80N06S2-07	SP000218818	PG-TO263-3-2	55	0.0066	2.1 ... 4.0	80
▼ IPB 80N06S2-08	SP000218830	PG-TO263-3-2	55	0.0080	2.1 ... 4.0	80
▼ IPB 80N06S2-09	SP000218741	PG-TO263-3-2	55	0.0091	2.1 ... 4.0	80
▼ IPB 80N06S2-H5	SP000218162	PG-TO263-3-2	55	0.0055	2.1 ... 4.0	80
▼ IPB 80N06S2L-05	SP000219004	PG-TO263-3-2	55	0.0048	1.2 ... 2.0	80
▼ IPB 80N06S2L-06	SP000218163	PG-TO263-3-2	55	0.0063	1.2 ... 2.0	80
▼ IPB 80N06S2L-07	SP000218867	PG-TO263-3-2	55	0.0070	1.2 ... 2.0	80
▼ IPB 80N06S2L-09	SP000218743	PG-TO263-3-2	55	0.0085	1.2 ... 2.0	80
▼ IPB 80N06S2L-11	SP000218177	PG-TO263-3-2	55	0.0110	1.2 ... 2.0	80
▼ IPB 80N06S2L-H5	SP000219068	PG-TO263-3-2	55	0.0050	1.2 ... 2.0	80
▼ IPB 100N06S2-05	SP000218874	PG-TO263-3-2	55	0.0050	2.1 ... 4.0	100
▼ IPB 100N06S2L-05	SP000219003	PG-TO263-3-2	55	0.0047	1.2 ... 2.0	100
▼ IPI 80N06S2-07	SP000218817	PG-TO262-3-1	55	0.0066	2.1 ... 4.0	80
▼ IPI 80N06S2-08	SP000218828	PG-TO262-3-1	55	0.0080	2.1 ... 4.0	80
▼ IPI 80N06S2L-05	SP000219002	PG-TO262-3-1	55	0.0045	1.2 ... 2.0	80
▼ IPI 80N06S2L-11	SP000218176	PG-TO262-3-1	55	0.0110	1.2 ... 2.0	80
▼ IPP 77N06S2-12	SP000218172	PG-TO220-3-1	55	0.0120	2.1 ... 4.0	77
▼ IPP 80N06S2-05	SP000218873	PG-TO220-3-1	55	0.0051	2.1 ... 4.0	80
▼ IPP 80N06S2-07	SP000218810	PG-TO220-3-1	55	0.0120	2.1 ... 4.0	80
▼ IPP 80N06S2-08	SP000218826	PG-TO220-3-1	55	0.0080	2.1 ... 4.0	80
▼ IPP 80N06S2-09	SP000218740	PG-TO220-3-1	55	0.0091	2.1 ... 4.0	80
▼ IPP 80N06S2-H5	SP000218155	PG-TO220-3-1	55	0.0055	2.1 ... 4.0	80
▼ IPP 80N06S2L-05	SP000219000	PG-TO220-3-1	55	0.0048	1.2 ... 2.0	80
▼ IPP 80N06S2L-06	SP000218824	PG-TO220-3-1	55	0.0063	1.2 ... 2.0	80
▼ IPP 80N06S2L-07	SP000218831	PG-TO220-3-1	55	0.0070	1.2 ... 2.0	80
▼ IPP 80N06S2L-09	SP000218742	PG-TO220-3-1	55	0.0085	1.2 ... 2.0	80
▼ IPP 80N06S2L-11	SP000218175	PG-TO220-3-1	55	0.0110	1.2 ... 2.0	80
▼ IPP 80N06S2L-H5	SP000219067	PG-TO220-3-1	55	0.0050	1.2 ... 2.0	80
▼ IPP 100N06S2-05	SP000218872	PG-TO220-3-1	55	0.0050	2.1 ... 4.0	100
▼ IPP 100N06S2L-05	SP000218879	PG-TO220-3-1	55	0.0047	1.2 ... 2.0	100

### N-Channel Enhancement Types (OptiMOS®)

#### Low Voltage MOSFETs 60 V (logic level)

▼ IPB 048N06L G	SP000204181	PG-TO263-3-2	60	0.0044	1.2 ... 2.0	100
▼ IPB 065N06L G	SP000204183	PG-TO263-3-2	60	0.0065	1.2 ... 2.0	80
▼ IPB 070N06L G	SP000204172	PG-TO263-3-2	60	0.0067	1.2 ... 2.0	80
▼ IPB 085N06L G	SP000204190	PG-TO263-3-2	60	0.0085	1.2 ... 2.0	80
▼ IPB 110N06L G	SP000204193	PG-TO263-3-2	60	0.0110	1.2 ... 2.0	78
▼ IPD 127N06L G	SP000204177	P-TO252-3-11	60	0.0127	1.2 ... 2.0	50
▼ IPD 640N06L G	SP000203939	P-TO252-3-11	60	0.0640	1.2 ... 2.0	18
▼ IPP 048N06L G	SP000204180	PG-TO220-3-1	60	0.0044	1.2 ... 2.0	100
▼ IPP 065N06L G	SP000204182	PG-TO220-3-1	60	0.0065	1.2 ... 2.0	80
▼ IPP 070N06L G	SP000204171	PG-TO220-3-1	60	0.0067	1.2 ... 2.0	80
▼ IPP 085N06L G	SP000204188	PG-TO220-3-1	60	0.0085	1.2 ... 2.0	80
▼ IPP 110N06L G	SP000204194	PG-TO220-3-1	60	0.0110	1.2 ... 2.0	78

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel Enhancement Types (OptiMOS®) Low Voltage MOSFETs 60 V (normal level)

▼ IPB 070N06N G	SP000204187	PG-TO263-3-2	60	0.0067	1.2 ... 2.0	80
▼ IPB 080N06N G	SP000204174	PG-TO263-3-2	60	0.0077	1.2 ... 2.0	80
▼ IPB120N06N G	SP000204176	PG-TO263-3-2	60	0.0117	1.2 ... 2.0	75
▼ IPD 144N06N G	SP000203941	P-TO252-3-11	60	0.0144	2.1 ... 4.0	50
▼ IPD 400N06N G	SP000203938	P-TO252-3-11	60	0.0400	2.1 ... 4.0	27
▼ IPD 800N06N G	SP000204179	P-TO252-3-11	60	0.0800	2.1 ... 4.0	16
▼ IPI 070N06N G	SP000208612	P-TO262-3-1	60	0.0067	1.2 ... 2.0	80
▼ IPP 080N06N G	SP000204173	PG-TO220-3-1	60	0.0077	2.1 ... 4.0	80
▼ IPP 070N06N G	SP000204186	PG-TO220-3-1	60	0.0067	1.2 ... 2.0	80
▼ IPP120N06N G	SP000204175	PG-TO220-3-1	60	0.0117	1.2 ... 2.0	75

### N-Channel Enhancement Types (OptiMOS®) Low Voltage MOSFETs 75 V

SPB 80N08S2-07	SP000016355	P-TO263-3-2	75	0.0071	2.1 ... 4.0	80
SPB 80N08S2L-07	SP000016359	P-TO263-3-2	75	0.0068	1.2 ... 2.0	80
SPB 100N08S2-07	SP000013715	P-TO263-3-2	75	0.0068	2.1 ... 4.0	100
SPB 100N08S2L-07	SP000013716	P-TO263-3-2	75	0.0065	1.2 ... 2.0	100
SPD 220N08S2L-50	SP000013910	P-TO252-3-11	75	0.0500	1.2 ... 2.0	25
SPD 30N08S2-22	SP000013153	P-TO252-3-11	75	0.0215	2.1 ... 4.0	30
SPD 30N08S2L-21	SP000013152	P-TO252-3-11	75	0.0205	1.2 ... 2.0	30
▼ SPI 80N08S2-07	SP000013954	P-TO262-3-1	75	0.0071	2.1 ... 4.0	80
SPI 80N08S2-07R	SP000013717	P-TO262-3-1	75	0.0073	2.1 ... 4.0	80
▼ SPI 100N08S2-07	SP000055687	P-TO262-3-1	75	0.0068	2.1 ... 4.0	100
SPP 80N08S2-07	SP000012475	P-TO220-3-1	75	0.0071	2.1 ... 4.0	80
SPP 80N08S2L-07	SP000012476	P-TO220-3-1	75	0.0068	1.2 ... 2.0	80
SPP 100N08S2-07	SP000013722	P-TO220-3-1	75	0.0068	2.1 ... 4.0	100
SPP 100N08S2L-07	SP000013723	P-TO220-3-1	75	0.0065	1.2 ... 2.0	100

### N-Channel Enhancement Types (OptiMOS®) (for industrial applications) Low Voltage MOSFETs 75 V

▼ IPB 100N08S2-07	SP000219044	PG-TO263-3-2	75	0.0068	2.1 ... 4.0	100
▼ IPB 100N08S2L-07	SP000219053	PG-TO263-3-2	75	0.0065	1.2 ... 2.0	100
▼ IPB 80N08S2-07	SP000219048	PG-TO263-3-2	75	0.0071	2.1 ... 4.0	80
▼ IPB 80N08S2L-07	SP000219051	PG-TO263-3-2	75	0.0068	1.2 ... 2.0	80
▼ IPI 80N08S2-07	SP000219043	PG-TO262-3-1	75	0.0071	2.1 ... 4.0	80
▼ IPI 100N08S2-07	SP000219041	PG-TO262-3-1	75	0.0068	2.1 ... 4.0	100
▼ IPP 80N08S2-07	SP000219040	PG-TO220-3-1	75	0.0071	2.1 ... 4.0	80
▼ IPP 80N08S2L-07	SP000219050	PG-TO220-3-1	75	0.0068	1.2 ... 2.0	80
▼ IPP 100N08S2-07	SP000219005	PG-TO220-3-1	75	0.0068	2.1 ... 4.0	100
▼ IPP 100N08S2L-07	SP000219052	PG-TO220-3-1	75	0.0065	1.2 ... 2.0	100

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel Enhancement Types (OptiMOS®2)

#### Low Voltage MOSFETs 25 V

▼ BSC 020N025S G	SP000095463	PG-TDSON-8	25	0.0020	1.2 ... 2.0	100
▼ BSC 024N025S G	SP000095464	PG-TDSON-8	25	0.0024	1.2 ... 2.0	100
▼ BSC 029N025S G	SP000095465	PG-TDSON-8	25	0.0029	1.2 ... 2.0	100
▼ BSC 037N025S G	SP000095466	PG-TDSON-8	25	0.0037	1.2 ... 2.0	100
▼ BSC 048N025S G	SP000095467	PG-TDSON-8	25	0.0048	1.2 ... 2.0	89
▼ BSC 072N025S G	SP000095468	PG-TDSON-8	25	0.0072	1.2 ... 2.0	40
▼ BSC 085N025S G	SP000095469	PG-TDSON-8	25	0.0085	1.2 ... 2.0	35
▼ BSC 106N025S G	SP000095470	PG-TDSON-8	25	0.0106	1.2 ... 2.0	30
IPB 03N03LA	SP000014034	P-TO263-3-2	25	0.0027	1.2 ... 2.0	80
▼ IPB 03N03LA G	SP000087858	PG-TO263-3-2	25	0.0027	1.2 ... 2.0	80
IPB 04N03LA	SP000014354	P-TO263-3-2	25	0.0039	1.2 ... 2.0	80
▼ IPB 04N03LA G	SP000103302	PG-TO263-3-2	25	0.0039	1.2 ... 2.0	80
IPB 05N03LA	SP000016268	P-TO263-3-2	25	0.0046	1.2 ... 2.0	80
▼ IPB 05N03LA G	SP000068872	PG-TO263-3-2	25	0.0046	1.2 ... 2.0	80
IPB 06N03LA	SP000016269	P-TO263-3-2	25	0.0059	1.2 ... 2.0	50
▼ IPB 06N03LA G	SP000068850	PG-TO263-3-2	25	0.0059	1.2 ... 2.0	50
IPB 09N03LA	SP000016271	P-TO263-3-2	25	0.0089	1.2 ... 2.0	50
▼ IPB 09N03LA G	SP000068859	PG-TO263-3-2	25	0.0089	1.2 ... 2.0	50
IPB 11N03LA	SP000014987	P-TO263-3-2	25	0.0112	1.2 ... 2.0	30
▼ IPB 11N03LA G	SP000103306	PG-TO263-3-2	25	0.0112	1.2 ... 2.0	30
IPB 14N03LA	SP000016324	P-TO263-3-2	25	0.0136	1.2 ... 2.0	30
▼ IPB 14N03LA G	SP000085264	PG-TO263-3-2	25	0.0136	1.2 ... 2.0	30
IPB H6N03LA	SP000068587	P-TO263-3-2	25	0.0062	1.2 ... 2.0	50
▼ IPB H6N03LA G	SP000080228	PG-TO263-3-2	25	0.0062	1.2 ... 2.0	50
▼ IPD 03N03LA G	SP000016406	PG-TO252-3-11	25	0.0032	1.2 ... 2.0	90
IPD 04N03LA	SP000014352	P-TO252-3-11	25	0.0038	1.2 ... 2.0	50
▼ IPD 04N03LA G	SP000017598	PG-TO252-3-11	25	0.0038	1.2 ... 2.0	50
IPD 05N03LA	SP000014022	P-TO252-3-11	25	0.0051	1.2 ... 2.0	50
▼ IPD 05N03LA G	SP000017599	PG-TO252-3-11	25	0.0051	1.2 ... 2.0	50
IPD 06N03LA	SP000016270	P-TO252-3-11	25	0.0057	1.2 ... 2.0	50
▼ IPD 06N03LA G	SP000017600	PG-TO252-3-11	25	0.0057	1.2 ... 2.0	50
IPD 09N03LA	SP000016272	P-TO252-3-11	25	0.0060	1.2 ... 2.0	50
▼ IPD 09N03LA G	SP000017536	PG-TO252-3-11	25	0.0060	1.2 ... 2.0	50
IPD 10N03LA	SP000014983	P-TO252-3-11	25	0.0104	1.2 ... 2.0	30
▼ IPD 10N03LA G	SP000017602	PG-TO252-3-11	25	0.0104	1.2 ... 2.0	30
IPD 13N03LA	SP000016325	P-TO252-3-11	25	0.0128	1.2 ... 2.0	30
▼ IPD 13N03LA G	SP000017537	PG-TO252-3-11	25	0.0128	1.2 ... 2.0	30
IPD H4N03LA G	SP000016407	PG-TO252-3-11	25	0.0042	1.2 ... 2.0	90
IPD H5N03LA G	SP000064379	PG-TO252-3-11	25	0.0052	1.2 ... 2.0	50
IPD H6N03LA G	SP000065817	PG-TO252-3-11	25	0.0060	1.2 ... 2.0	50
IPD H9N03LA G	SP000223594	PG-TO252-3-11	25	0.0092	1.2 ... 2.0	30
IPF 04N03LA	SP000014622	P-TO252-3-23	25	0.0041	1.2 ... 2.0	50
▼ IPF 04N03LA G	SP000017605	PG-TO252-3-23	25	0.0041	1.2 ... 2.0	50
IPF 05N03LA	SP000014545	P-TO252-3-23	25	0.0054	1.2 ... 2.0	50
▼ IPF 05N03LA G	SP000017606	PG-TO252-3-23	25	0.0054	1.2 ... 2.0	50
IPF 06N03LA	SP000015047	P-TO252-3-23	25	0.0089	1.2 ... 2.0	50
▼ IPF 06N03LA G	SP000017607	PG-TO252-3-23	25	0.0089	1.2 ... 2.0	50

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel Enhancement Types (OptiMOS®2)

#### Low Voltage MOSFETs 25 V

(cont'd)

IPF 09N03LA	SP000014623	P-TO252-3-23	25	0.0106	1.2 ... 2.0	30
▼ IPF 09N03LA G	SP000017608	PG-TO252-3-23	25	0.0106	1.2 ... 2.0	30
IPF 10N03LA	SP000014985	P-TO252-3-23	25	0.0133	1.2 ... 2.0	30
▼ IPF 10N03LA G	SP000017609	PG-TO252-3-23	25	0.0133	1.2 ... 2.0	30
IPF 13N03LA	SP000014546	P-TO252-3-23	25	0.0130	1.2 ... 2.0	30
▼ IPF 13N03LA G	SP000017610	PG-TO252-3-23	25	0.0130	1.2 ... 2.0	30
IPF H6N03LA	SP000068589	PG-TO252-3-23	25	0.0062	1.2 ... 2.0	50
IPI 03N03LA	SP000014036	P-TO262-3-1	25	0.0027	1.2 ... 2.0	80
IPI 04N03LA	SP000014355	P-TO262-3-1	25	0.0039	1.2 ... 2.0	80
IPI 05N03LA	SP000014021	P-TO262-3-1	25	0.0046	1.2 ... 2.0	80
IPI 06N03LA	SP000014026	P-TO262-3-1	25	0.0059	1.2 ... 2.0	50
IPI 09N03LA	SP000014032	P-TO262-3-1	25	0.0089	1.2 ... 2.0	50
IPI 11N03LA	SP000014988	P-TO262-3-1	25	0.0112	1.2 ... 2.0	30
IPI 14N03LA	SP000014029	P-TO262-3-1	25	0.0136	1.2 ... 2.0	30
IPP 03N03LA	SP000014035	P-TO220-3-1	25	0.0027	1.2 ... 2.0	80
IPP 04N03LA	SP000014353	P-TO220-3-1	25	0.0039	1.2 ... 2.0	80
IPP 05N03LA	SP000014020	P-TO220-3-1	25	0.0046	1.2 ... 2.0	80
IPP 06N03LA	SP000014025	P-TO220-3-1	25	0.0059	1.2 ... 2.0	50
IPP 09N03LA	SP000014031	P-TO220-3-1	25	0.0089	1.2 ... 2.0	50
IPP 11N03LA	SP000014986	P-TO220-3-1	25	0.0112	1.2 ... 2.0	30
IPP 14N03LA	SP000014028	P-TO220-3-1	25	0.0136	1.2 ... 2.0	30
▼ IPS 03N03LA G	SP000016404	PG-TO251-3-11	25	0.0034	1.2 ... 2.0	90
IPS 04N03LA G	SP000016330	PG-TO251-3-11	25	0.0040	1.2 ... 2.0	50
IPS 05N03LA G	SP000015129	PG-TO251-3-11	25	0.0051	1.2 ... 2.0	50
IPS 06N03LA G	SP000015130	PG-TO251-3-11	25	0.0057	1.2 ... 2.0	50
IPS 09N03LA G	SP000015131	PG-TO251-3-11	25	0.0086	1.2 ... 2.0	50
IPS 10N03LA G	SP000015132	PG-TO251-3-11	25	0.0104	1.2 ... 2.0	30
IPS 13N03LA G	SP000015133	PG-TO251-3-11	25	0.0128	1.2 ... 2.0	30
IPS H4N03LA G	SP000016331	PG-TO251-3-11	25	0.0042	1.2 ... 2.0	90
IPS H5N03LA G	SP000064378	PG-TO251-3-11	25	0.0052	1.2 ... 2.0	50
IPS H6N03LA G	SP000075257	PG-TO251-3-11	25	0.0062	1.2 ... 2.0	50
IPS H9N03LA G	SP000223596	PG-TO251-3-11	25	0.0092	1.2 ... 2.0	30
IPU 04N03LA	SP000014621	P-TO251-3-21	25	0.0040	1.2 ... 2.0	50
▼ IPU 04N03LA G	SP000017593	PG-TO251-3-21	25	0.0040	1.2 ... 2.0	50
IPU 05N03LA	SP000014903	P-TO251-3-21	25	0.0053	1.2 ... 2.0	50
▼ IPU 05N03LA G	SP000017595	PG-TO251-3-21	25	0.0053	1.2 ... 2.0	50
IPU 06N03LA	SP000014023	P-TO251-3-21	25	0.0059	1.2 ... 2.0	50
▼ IPU 06N03LA G	SP000017594	PG-TO251-3-21	25	0.0059	1.2 ... 2.0	50
IPU 09N03LA	SP000014033	P-TO251-3-21	25	0.0088	1.2 ... 2.0	50
▼ IPU 09N03LA G	SP000017511	PG-TO251-3-21	25	0.0088	1.2 ... 2.0	50
IPU 10N03LA	SP000014984	P-TO251-3-21	25	0.0106	1.2 ... 2.0	30
▼ IPU 10N03LA G	SP000017597	PG-TO251-3-21	25	0.0106	1.2 ... 2.0	30
IPU 13N03LA	SP000014030	P-TO251-3-21	25	0.0130	1.2 ... 2.0	30
▼ IPU 13N03LA G	SP000017538	PG-TO251-3-21	25	0.0130	1.2 ... 2.0	30
IPU H6N03LA G	SP000068594	PG-TO251-3-21	25	0.0062	1.2 ... 2.0	50

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel Enhancement Types (OptiMOS® 2)

#### Low Voltage MOSFETs 30 V

▼ BSC 022N03S G	SP000056189	PG-TDSON-8	30	0.0022	1.2 ... 2.0	100
▼ BSC 027N03S G	SP000095462	PG-TDSON-8	30	0.0027	1.2 ... 2.0	100
BSC 032N03S	SP000014714	P-TDSON-8	30	0.0032	1.2 ... 2.0	100
▼ BSC 032N03S G	SP000056190	PG-TDSON-8	30	0.0032	1.2 ... 2.0	100
▼ BSC 042N03S G	SP000056191	PG-TDSON-8	30	0.0042	1.2 ... 2.0	95
BSC 052N03S	SP000014716	P-TDSON-8	30	0.0052	1.2 ... 2.0	80
▼ BSC 052N03S G	SP000056192	PG-TDSON-8	30	0.0052	1.2 ... 2.0	80
BSC 059N03S	SP000014717	P-TDSON-8	30	0.0055	1.2 ... 2.0	73
▼ BSC 059N03S G	SP000056194	PG-TDSON-8	30	0.0055	1.2 ... 2.0	73
BSC 079N03S G	SP000016414	PG-TDSON-8	30	0.0079	1.2 ... 2.0	40
BSC 094N03S G	SP000016415	PG-TDSON-8	30	0.0055	1.2 ... 2.0	35
BSC 119N03S G	SP000016416	PG-TDSON-8	30	0.0055	1.2 ... 2.0	30
▼ BSO 052N03S G	SP000080998	PG-DSO-8-1	30	0.0052	1.2 ... 2.0	17
BSO 064N03S	SP000014672	P-DSO-8-1	30	0.0064	1.2 ... 2.0	16
▼ BSO 064N03S G	SP000077646	PG-DSO-8-1	30	0.0064	1.2 ... 2.0	16
BSO 072N03S	SP000014673	P-DSO-8-1	30	0.0068	1.2 ... 2.0	15
▼ BSO 072N03S G	SP000077647	PG-DSO-8-1	30	0.0068	1.2 ... 2.0	15
BSO 094N03S	SP000014674	P-DSO-8-1	30	0.0091	1.2 ... 2.0	13
▼ BSO 094N03S G	SP000077648	PG-DSO-8-1	30	0.0091	1.2 ... 2.0	13
BSO 104N03S	SP000014675	P-DSO-8-1	30	0.0097	1.2 ... 2.0	13
▼ BSO 104N03S G	SP000077649	PG-DSO-8-1	30	0.0097	1.2 ... 2.0	13
▼ BSO 119N03S G	SP000077657	PG-DSO-8-1	30	0.0119	1.2 ... 2.0	11
BSO 150N03	SP000014678	P-DSO-8-1	30	0.0150	1.2 ... 2.0	9.1
▼ BSO 150N03	SP000077687	PG-DSO-8-1	30	0.0150	1.2 ... 2.0	9.1
▼ BSO 200N03	SP000104683	PG-DSO-8-1	30	0.0200	1.2 ... 2.0	7.9
BSO 200N03S	SP000014677	P-DSO-8-1	30	0.0200	1.2 ... 2.0	8.8
▼ BSO 200N03S	SP000077658	PG-DSO-8-1	30	0.0200	1.2 ... 2.0	8.8
BSO 300N03S	SP000014572	P-DSO-8-1	30	0.0300	1.2 ... 2.0	7.2
▼ BSO 300N03S	SP000077644	PG-DSO-8-1	30	0.0300	1.2 ... 2.0	7.2
BSO 350N03S	SP000014679	P-DSO-8-1	30	0.0350	1.2 ... 2.0	6.0
▼ BSO 350N03S G	SP000080984	PG-DSO-8-1	30	0.0350	1.2 ... 2.0	6.0
IPB 03N03LB	SP000074722	P-TO263-3-2	30	0.0028	1.2 ... 2.0	80
▼ IPB 03N03LB G	SP000103300	PG-TO263-3-2	30	0.0028	1.2 ... 2.0	80
IPB 04N03LB	SP000064219	P-TO263-3-2	30	0.0035	1.2 ... 2.0	80
▼ IPB 04N03LB G	SP000103301	PG-TO263-3-2	30	0.0035	1.2 ... 2.0	80
▼ IPD 05N03LB	SP000065206	P-TO263-3-2	30	0.0048	1.2 ... 2.0	90
▼ IPD 05N03LB G	SP000103303	PG-TO263-3-2	30	0.0048	1.2 ... 2.0	90
▼ IPB 06N03LB	SP000065274	P-TO263-3-2	30	0.0063	1.2 ... 2.0	50
▼ IPB 06N03LB G	SP000103304	PG-TO263-3-2	30	0.0063	1.2 ... 2.0	50
IPB 10N03LB	SP000064220	P-TO263-3-2	30	0.0096	1.2 ... 2.0	50
▼ IPB 10N03LB G	SP000103305	PG-TO263-3-2	30	0.0096	1.2 ... 2.0	50
IPB 13N03LB	SP000064218	P-TO263-3-2	30	0.0125	1.2 ... 2.0	30
▼ IPB 13N03LB G	SP000103307	PG-TO263-3-2	30	0.0125	1.2 ... 2.0	30
IPD 03N03LB G	SP000016408	PG-TO252-3-11	30	0.0033	1.2 ... 2.0	90
IPD 04N03LB G	SP000016409	PG-TO252-3-11	30	0.0041	1.2 ... 2.0	50

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel Enhancement Types (OptiMOS®2)

#### Low Voltage MOSFETs 30 V

(cont'd)

IPD 05N03LB G	SP000016410	PG-TO252-3-11	30	0.0048	1.2 ... 2.0	90
IPD 06N03LB G	SP000016411	PG-TO252-3-11	30	0.0061	1.2 ... 2.0	50
IPD 09N03LB G	SP000016412	PG-TO252-3-11	30	0.0091	1.2 ... 2.0	50
IPD 12N03LB	SP000016413	P-TO252-3-11	30	0.0116	1.2 ... 2.0	30
▼ IPD 12N03LB G	SP000017332	PG-TO252-3-11	30	0.0116	1.2 ... 2.0	30
IPP 03N03LB G	SP000074721	PG-TO220-3-1	30	0.0031	1.2 ... 2.0	80
IPP 04N03LB G	SP000064223	PG-TO220-3-1	30	0.0038	1.2 ... 2.0	80
IPP 05N03LB G	SP000065247	PG-TO220-3-1	30	0.0053	1.2 ... 2.0	80
IPP 07N03LB G	SP000065252	PG-TO220-3-1	30	0.0065	1.2 ... 2.0	50
IPP 10N03LB G	SP000064222	PG-TO220-3-1	30	0.0099	1.2 ... 2.0	50
IPP 13N03LB G	SP000064224	PG-TO220-3-1	30	0.0128	1.2 ... 2.0	30
▼ IPS 03N03LB G	SP000220141	PG-TO251-3-11	30	0.0028	1.2 ... 2.0	80
▼ IPS 04N03LB G	SP000219859	PG-TO251-3-11	30	0.0041	1.2 ... 2.0	50
▼ IPS 05N03LB G	SP000220140	PG-TO251-3-11	30	0.0048	1.2 ... 2.0	90
▼ IPS 09N03LB G	SP000220142	PG-TO251-3-11	30	0.0091	1.2 ... 2.0	50
▼ IPS H6N03LB G	SP000220143	PG-TO251-3-11	30	0.0090	1.2 ... 2.0	50
▼ IPU 04N03LB G	SP000220463	PG-TO251-3-21	30	0.0038	1.2 ... 2.0	80
▼ IPU 06N03LB G	SP000209113	PG-TO251-3-21	30	0.0061	1.2 ... 2.0	50
▼ IPU 09N03LB G	SP000209115	PG-TO251-3-21	30	0.0091	1.2 ... 2.0	50
▼ IPU H6N03LB G	SP000209114	PG-TO251-3-21	30	0.0090	1.2 ... 2.0	50

### N-Channel Enhancement Types (OptiMOS®2)

#### Low Voltage MOSFETs 85 V

▼ IPB 051NE8N G	SP000096445	PG-TO263-3-2	85	0.0051	2.1 ... 4.0	100
▼ IPB 06CNE8N G	SP000096447	PG-TO263-3-2	85	0.0062	2.1 ... 4.0	100
▼ IPB 08CNE8N G	SP000096449	PG-TO263-3-2	85	0.0082	2.1 ... 4.0	95
▼ IPB 12CNE8N G	SP000096451	PG-TO263-3-2	85	0.0129	2.1 ... 4.0	67
▼ IPB 16CNE8N G	SP000096453	PG-TO263-3-2	85	0.0162	2.1 ... 4.0	53
▼ IPD 16CNE8N G	SP000096455	PG-TO252-3-11	85	0.0162	2.1 ... 4.0	53
▼ IPD 25CNE8N G	SP000096457	PG-TO252-3-11	85	0.0260	2.1 ... 4.0	35
▼ IPP 06CNE8N G	SP000096464	PG-TO220-3-1	85	0.0062	2.1 ... 4.0	100
▼ IPP 08CNE8N G	SP000096466	PG-TO220-3-1	85	0.0082	2.1 ... 4.0	95
▼ IPP 12CNE8N G	SP000096467	PG-TO220-3-1	85	0.0129	2.1 ... 4.0	67
▼ IPP 054NE8N G	SP000096462	PG-TO220-3-1	85	0.0051	2.1 ... 4.0	100
▼ IPP 16CNE8N G	SP000096470	PG-TO220-3-1	85	0.0162	2.1 ... 4.0	53
▼ IPP 26CNE8N G	SP000096472	PG-TO220-3-1	85	0.0250	2.1 ... 4.0	35

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel Enhancement Types (OptiMOS®2) Low Voltage MOSFETs 100 V

▼ IPB 05CN10N G	SP000096440	PG-TO263-3-2	100	0.0054	2.1 ... 4.0	100
▼ IPB 06CN10N G	SP000096446	PG-TO263-3-2	100	0.0065	2.1 ... 4.0	100
▼ IPB 08CN10N G	SP000096448	PG-TO263-3-2	100	0.0085	2.1 ... 4.0	95
▼ IPB 12CN10N G	SP000096450	PG-TO263-3-2	100	0.0129	2.1 ... 4.0	67
▼ IPB 16CN10N G	SP000096452	PG-TO263-3-2	100	0.0165	2.1 ... 4.0	53
▼ IPD 16CN10N G	SP000096454	PG-TO252-3-11	100	0.0165	2.1 ... 4.0	53
▼ IPD 25CN10N G	SP000096456	PG-TO252-3-11	100	0.0250	2.1 ... 4.0	25
▼ IPD 33CN10N G	SP000096458	PG-TO252-3-11	100	0.0330	2.1 ... 4.0	27
▼ IPD 49CN10N G	SP000096459	PG-TO252-3-11	100	0.0490	2.1 ... 4.0	20
▼ IPD 64CN10N G	SP000104811	PG-TO252-3-11	100	0.0640	2.1 ... 4.0	17
▼ IPD 78CN10N G	SP000096460	PG-TO252-3-11	100	0.0780	2.1 ... 4.0	13
▼ IPP 05CN10N G	SP000096461	PG-TO220-3-1	100	0.0051	2.1 ... 4.0	100
▼ IPP 06CN10N G	SP000096463	PG-TO220-3-1	100	0.0065	2.1 ... 4.0	100
▼ IPP 08CN10N G	SP000096465	PG-TO220-3-1	100	0.0085	2.1 ... 4.0	95
▼ IPP 12CN10N G	SP000096468	PG-TO220-3-1	100	0.0129	2.1 ... 4.0	67
▼ IPP 16CN10N G	SP000096469	PG-TO220-3-1	100	0.0165	2.1 ... 4.0	53
▼ IPP 26CN10N G	SP000096471	PG-TO220-3-1	100	0.0260	2.1 ... 4.0	35
▼ IPP 50CN10N G	SP000096474	PG-TO220-3-1	100	0.0500	2.1 ... 4.0	20



SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel Enhancement Types (OptiMOS®-T)

#### Low Voltage MOSFETs 55 V MOSFETs

▼ IPB 25N06S3L-22	SP000087994	PG-TO263-3-2	55	0.0210	1.2 ... 2.2	25
▼ IPB 25N06S3-25	SP000088000	PG-TO263-3-2	55	0.0250	2.1 ... 4.0	25
▼ IPB 77N06S3-09	SP000088715	PG-TO263-3-2	55	0.0088	2.1 ... 4.0	77
▼ IPB 80N06S3-07	SP000088065	PG-TO263-3-2	55	0.0065	2.1 ... 4.0	80
▼ IPB 80N06S3L-06	SP000088004	PG-TO263-3-2	55	0.0056	1.2 ... 2.2	80
▼ IPB 100N06S3-03	SP000087982	PG-TO263-3-2	55	0.0030	2.1 ... 4.0	100
▼ IPB 100N06S3L-03	SP000087978	PG-TO263-3-2	55	0.0027	1.2 ... 2.2	100
▼ IPB 100N06S3L-04	SP000102219	PG-TO263-3-2	55	0.0038	1.2 ... 2.2	100
▼ IPI 25N06S3L-22	SP000087996	PG-TO262-3-1	55	0.0021	1.2 ... 2.2	25
▼ IPI 25N06S3-25	SP000087997	PG-TO262-3-1	55	0.0025	2.1 ... 4.0	25
▼ IPI 77N06S3-09	SP000088716	PG-TO262-3-1	55	0.0088	2.1 ... 4.0	77
▼ IPI 80N06S3-07	SP000088064	PG-TO262-3-1	55	0.0065	2.1 ... 4.0	80
▼ IPI 80N06S3L-06	SP000088002	PG-TO262-3-1	55	0.0056	1.2 ... 2.2	80
▼ IPI 80N06S3L-08	SP000088131	PG-TO262-3-1	55	0.0076	1.2 ... 2.2	80
▼ IPI 100N06S3-03	SP000087992	PG-TO262-3-1	55	0.0030	2.1 ... 4.0	100
▼ IPI 100N06S3L-03	SP000087979	PG-TO262-3-1	55	0.0027	1.2 ... 2.2	100
▼ IPI 100N06S3L-04	SP000102211	PG-TO262-3-1	55	0.0038	1.2 ... 2.2	100
▼ IPP 25N06S3L-22	SP000087993	PG-TO220-3-1	55	0.0021	1.2 ... 2.2	25
▼ IPP 25N06S3-25	SP000088001	PG-TO220-3-1	55	0.0025	2.1 ... 4.0	25
▼ IPP 77N06S3-09	SP000088717	PG-TO220-3-1	55	0.0088	2.1 ... 4.0	77
▼ IPP 80N06S3-07	SP000088067	PG-TO220-3-1	55	0.0065	2.1 ... 4.0	80
▼ IPP 80N06S3L-06	SP000088006	PG-TO220-3-1	55	0.0056	1.2 ... 2.2	80
▼ IPP 80N06S3L-08	SP000088127	PG-TO220-3-1	55	0.0076	1.2 ... 2.2	80
▼ IPP 100N06S3-03	SP000087980	PG-TO220-3-1	55	0.0030	2.1 ... 4.0	100
▼ IPP 100N06S3L-03	SP000087977	PG-TO220-3-1	55	0.0027	1.2 ... 2.2	100
▼ IPP 100N06S3L-04	SP000102209	PG-TO220-3-1	55	0.0038	1.2 ... 2.2	100

### N-Channel Enhancement Types (Buck Converter Series)

#### Low Voltage MOSFETs 30 V MOSFETs

IPD 20N03L	SP000016259	P-TO252-3-11	30	0.0200	1.2 ... 2.0	30
▼ IPD 20N03L G	SP000017603	PG-TO252-3-11	30	0.0200	1.2 ... 2.0	30
IPP 21N03L G	SP000065079	P-TO220-3-1	30	0.0210	1.2 ... 2.0	30
IPS 20N03L G	SP000064380	PG-TO251-3-11	30	0.0200	1.2 ... 2.0	30
▼ IPU 20N03L G	SP000018246	PG-TO251-3-1	30	0.0200	1.2 ... 2.0	30

SMD = Surface Mounted Device



# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### P-Channel Enhancement Types (OptiMOS®) Low Voltage MOSFETs -20 V to -30 V

BSA 223SP	SP000014171	SC75	-20	1.200	-1.2 ... -0.6	-0.39
BSD 223P	SP000013661	SOT363	-20	1.200	-1.2 ... -0.6	-0.35
BSL 207SP	SP000012582	TSOP-6-1	-20	0.045	-1.2 ... -0.6	-15.6
▼ BSL 207SP G	SP000095796	TSOP-6-1	-20	0.045	-1.2 ... -0.6	-15.6
BSL 211SP	SP000012580	TSOP-6-1	-20	0.067	-1.2 ... -0.6	-15.9
▼ BSL 211SP G	SP000095797	TSOP-6-1	-20	0.067	-1.2 ... -0.6	-15.9
BSO 201SP	SP000012578	P-DSO-8-1	-20	0.008	-1.2 ... -0.6	-14.9
BSO 203P	SP000012572	P-DSO-8-1	-20	0.021	-1.2 ... -0.6	-9.0
BSO 203SP	SP000012579	P-DSO-8-1	-20	0.021	-1.2 ... -0.6	-8.2
BSO 204P	SP000013487	P-DSO-8-1	-20	0.030	-1.2 ... -0.6	-23.9
BSO 207P	SP000012573	P-DSO-8-1	-20	0.045	-1.2 ... -0.6	-5.7
BSO 211P	SP000012623	P-DSO-8-1	-20	0.067	-1.2 ... -0.6	-4.7
BSO 301SP	SP000012583	P-DSO-8-1	-30	0.008	-2.0 ... -1.0	-14.9
BSO 303P	SP000012622	P-DSO-8-1	-30	0.021	-2.0 ... -1.0	-8.2
BSO 303SP	SP000014019	P-DSO-8-1	-30	0.021	-2.0 ... -1.0	-8.9
BSS 209PW	SP000013478	SOT323	-20	0.55	-1.2 ... -0.6	-0.58
BSS 223PW	SP000013479	SOT323	-20	1.20	-1.2 ... -0.6	-0.39
BSV 236 SP	SP000013480	SOT363	-20	0.175	-1.2 ... -0.6	-0.15
BSL 307SP	SP000012585	TSOP-6-1	-30	0.043	-2.0 ... -1.0	-23.4
▼ BSL 307SP G	SP000095798	TSOP-6-1	-30	0.043	-2.0 ... -1.0	-23.4
BSO 080P03S	SP000014958	P-DSO-8-1	-30	0.008	-2.2 ... -1.0	-14.9
BSO 130P03S	SP000014729	P-DSO-8-1	-30	0.013	-2.2 ... -1.0	-11.3
BSO 200P03S	SP000014959	P-DSO-8-1	-30	0.020	-2.2 ... -1.0	-9.1
SPD 50P03L	SP000012624	P-TO252-3-1	-30	0.007	-2.0 ... -1.0	-50
▼ SPD 50P03L G	SP000086729	PG-TO252-3-1	-30	0.007	-2.0 ... -1.0	-50



SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### P-Channel Enhancement Types (SIPMOS®)

#### Low Voltage MOSFETs -60 V to -250 V

BSO 613SPV	SP000012847	P-DSO-8-5	-60	0.13	-4.0 ... -2.1	-3.44
▼ BSO 613SPV G	SP000216309	PG-DSO-8-5	-60	0.13	-4.0 ... -2.1	-3.44
BSP 170P	SP000012133	SOT223	-60	0.30	-4.0 ... -2.1	-1.9
▼ BSP 170P G	SP000089225	SOT223	-60	0.30	-4.0 ... -2.1	-1.9
BSP 171P	SP000012134	SOT223	-60	0.30	-2.0 ... -4.0	-1.8
▼ BSP 171P G	SP000089226	SOT223	-60	0.30	-2.0 ... -4.0	-1.8
BSP 315P	SP000012319	SOT223	-60	0.80	-2.0 ... -4.0	-1.17
▼ BSP 315P G	SP000089221	SOT223	-60	0.80	-2.0 ... -4.0	-1.17
BSP 613P	SP000012301	SOT223	-60	0.13	-4.0 ... -2.1	-2.9
▼ BSP 613P G	SP000089224	SOT223	-60	0.13	-4.0 ... -2.1	-2.9
BSS 83P	SP000012075	SOT223	-60	2.00	-2.0 ... -4.0	-0.33
BSS 84P E-6327	SP000012321	SOT223	-60	8.00	-2.0 ... -4.0	-0.17
▼ BSS 84P G E-6327	SP000082879	SOT223	-60	8.00	-2.0 ... -4.0	-0.17
▼ BSS 84P E-6433	SP000012323	SOT223	-60	8.00	-2.0 ... -4.0	-0.17
BSS 84PW	SP000013078	SOT323	-60	8.00	-2.0 ... -4.0	-0.17
SPB 08P06P	SP000012508	P-TO263-3-2	-60	0.30	-4.0 ... -2.1	-8.8
▼ SPB 08P06P G	SP000102179	PG-TO263-3-2	-60	0.30	-4.0 ... -2.1	-8.8
SPB 18P06P	SP000012329	P-TO263-3-2	-60	0.30	-4.0 ... -2.1	-8.8
▼ SPB 18P06P G	SP000102181	PG-TO263-3-2	-60	0.30	-4.0 ... -2.1	-8.8
SPB 80P06P	SP000012841	P-TO263-3-2	-60	0.20	-4.0 ... -2.1	-80
▼ SPB 80P06P G	SP000096088	PG-TO263-3-2	-60	0.20	-4.0 ... -2.1	-80
SPD 08P06P	SP000077441	P-TO252-3-1	-60	0.30	-4.0 ... -2.1	-8.8
▼ SPD 08P06P G	SP000096087	PG-TO252-3-1	-60	0.30	-4.0 ... -2.1	-8.8
SPD 09P06PL	SP000012549	P-TO252-3-1	-60	0.25	-4.0 ... -2.1	-9.7
▼ SPD 09P06PL G	SP000077442	PG-TO252-3-1	-60	0.25	-4.0 ... -2.1	-9.7
SPD 18P06P	SP000012298	P-TO252-3-1	-60	0.13	-4.0 ... -2.1	-18.8
▼ SPD 18P06P G	SP000077440	PG-TO252-3-1	-60	0.13	-4.0 ... -2.1	-18.8
SPD 30P06P	SP000012842	P-TO252-3-1	-60	0.075	-4.0 ... -2.1	-30
▼ SPD 30P06P G	SP000077529	PG-TO252-3-1	-60	0.075	-4.0 ... -2.1	-30
SPP 08P06P	SP000012085	P-TO220-3-1	-60	0.30	-4.0 ... -2.1	-8.8
SPP 18P06P	SP000012300	P-TO220-3-1	-60	0.13	-4.0 ... -2.1	-18.8
SPP 80P06P	SP000012840	P-TO220-3-1	-60	0.023	-4.0 ... -2.1	-80
SPU 08P06P	SP000012086	P-TO251-3-1	-60	0.30	-4.0 ... -2.1	-8.8
SPU 09P06PL	SP000012876	P-TO251-3-1	-60	0.25	-4.0 ... -2.1	-9.7
SPU 18P06P	SP000012303	P-TO251-3-1	-60	0.13	-4.0 ... -2.1	-18.6
SPU 30P06P	SP000012844	P-TO251-3-1	-60	0.075	-4.0 ... -2.1	-30
BSP 316P	SP000014249	SOT223	-100	2.20	-2.0 ... -0.8	-0.65
▼ BSP 316P G	SP000089222	SOT223	-100	2.20	-2.0 ... -0.8	-0.65
SPP 15P10P	SP000014331	P-TO220-3-1	-100	0.24	-4.0 ... -2.1	-15
▼ SPP 15P10P G	SP000212313	PG-TO220-3-1	-100	0.24	-4.0 ... -2.1	-15
BSP 317P	SP000014250	SOT223	-200	6	-2.0 ... -0.8	-0.37
▼ BSP 317P G	SP000089220	SOT223	-200	6	-2.0 ... -0.8	-0.37
BSP 92P	SP000014253	SOT223	-240	20	-2.0 ... -0.8	-0.2
▼ BSP 92P G	SP000089223	SOT223	-240	20	-2.0 ... -0.8	-0.2
BSS 192P	SP000014329	SOT89	-240	20	-2.0 ... -0.8	-0.15
▼ BSS 192P G	SP000095795	SOT89	-240	20	-2.0 ... -0.8	-0.15

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel Depletion Types MOSFETs (SIPMOS®)

BSS 159N	SP000014638	SOT23	60	8	-3.5 ... -2.4	0.13
BSS 159N E-6906	SP000055412	SOT23	60	8	sorted in bands	0.13
BSS 169	SP000011172	SOT23	100	12	-2.9 ... -1.8	0.09
BSS 169 E-6906	SP000055416	SOT23	100	12	sorted in bands	0.09
BSP 149	SP000011104	SOT223	200	3.5	-2.1 ... -1.0	0.14
▼ BSP 149 G	SP000089214	SOT223	200	3.5	-2.1 ... -1.0	0.14
▼ BSP 149 E-6906	SP000055414	SOT223	200	3.5	sorted in bands	0.14
▼ BSP 149 G E-6906	SP000089215	SOT223	200	3.5	sorted in bands	0.14
BSP 129	SP000011102	SOT223	240	6	-2.1 ... -1.0	0.05
▼ BSP 129 G	SP000089218	SOT223	240	6	-2.1 ... -1.0	0.05
▼ BSP 129 G E-6906	SP000089219	SOT223	240	6	sorted in bands	0.05
BSS 139	SP000011170	SOT23	250	30	-2.1 ... -1.0	0.03
BSS 139 E-6906	SP000055415	SOT23	250	30	sorted in bands	0.03
BSP 135	SP000011103	SOT223	600	60	-2.1 ... -1.0	0.02
▼ BSP 135 G	SP000089206	SOT223	600	60	-2.1 ... -1.0	0.02
BSP 135 E-6906	SP000055417	SOT223	600	60	sorted in bands	0.02
▼ BSP 135 G E-6906	SP000089207	SOT223	600	60	sorted in bands	0.02
BSS 126 G	SP000055447	SOT23	600	500	-2.7 ... -1.6	0.007
BSS 126 G E-6906	SP000055448	SOT23	600	500	sorted in bands	0.007

### Complementary N/P-Channel Enhancement Types (SIPMOS®) Low Voltage MOSFETs

BSO 612CV	SP000012292	P-DSO-8-5	60	0.12	2.1 ... 4.0	3.1
			-60	0.30	-4.0 ... -2.1	-2.0
▼ BSO 612CV G	SP000216307	PG-DSO-8-5	60	0.12	2.1 ... 4.0	3.1
			-60	0.30	-4.0 ... -2.1	-2.0
BSO 615C	SP000011972	P-DSO-8-5	60	0.11	1.2 ... 2.0	3.2
			-60	0.30	-2.0 ... -1.0	-2.0
▼ BSO 615C G	SP000216311	PG-DSO-8-5	60	0.11	1.2 ... 2.0	3.2
			-60	0.30	-2.0 ... -1.0	-2.0

SMD = Surface Mounted Device



# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel SiPMOS Small-Signal Transistors High Voltage 400 V

BSP 298	SP000011109	SOT223	400	3	2.1 ... 4.0	0.50
▼ BSP 298 G	SP000088258	SOT223	400	3	2.1 ... 4.0	0.50
BSP 324	SP000011117	SOT223	400	25	1.5 ... 2.5	0.17
▼ BSP 324 G	SP000089203	SOT223	400	25	1.5 ... 2.5	0.17

### N-Channel SiPMOS Small-Signal Transistors High Voltage 500 V

BSP 299	SP000011110	SOT223	500	4	2.1 ... 4.0	0.40
▼ BSP 299 G	SP000089200	SOT223	500	4	2.1 ... 4.0	0.40

### N-Channel SiPMOS Small-Signal Transistors High Voltage 600 V

BSP 125	SP000011100	SOT223	600	45	1.5 ... 2.5	0.120
▼ BSP 125 G	SP000089204	SOT223	600	45	1.5 ... 2.5	0.120
BSP 125 E-6433	SP000011101	SOT223	600	45	1.5 ... 2.5	0.120
▼ BSP 125 G E-6433	SP000089211	SOT223	600	45	1.5 ... 2.5	0.120
BSS 127 G	SP000056646	SOT23	600	500	1.4 ... 2.6	0.023
BSS 225	SP000017502	SOT89	600	45	1.3 ... 2.3	0.090
▼ BSS 225 G	SP000095776	SOT89	600	45	1.3 ... 2.3	0.090

### N-Channel SiPMOS Small-Signal Transistors High Voltage 800 V

BSP 300	SP000011111	SOT223	800	20	2.0 ... 4.0	0.19
▼ BSP 300 G	SP000089201	SOT223	800	20	2.0 ... 4.0	0.19

### N-Channel SiPMOS MOSFETs High Voltage 800 V

▼ BUZ 81	SP000016235	P-TO220-3-1	800	2.5	2.4 ... 4.0	4.00
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SMD = Surface Mounted Device



# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel CoolMOS™ MOSFETs High Voltage 500 V

SPA 04N50C3	SP000216298	PG-TO220-3-31	500	0.95	2.1 ... 3.9	4.50
SPA 08N50C3	SP000216306	PG-TO220-3-31	500	0.60	2.1 ... 3.9	7.60
SPA 12N50C3	SP000216322	PG-TO220-3-31	500	0.38	2.1 ... 3.9	11.60
SPA 16N50C3	SP000216351	PG-TO220-3-31	500	0.28	2.1 ... 3.9	16.00
SPA 21N50C3	SP000216364	PG-TO220-3-31	500	0.19	2.1 ... 3.9	21.00
SPB 04N50C3	SP000014477	P-TO263-3-2	500	0.95	2.1 ... 3.9	4.50
SPB 12N50C3	SP000014894	P-TO263-3-2	500	0.38	2.1 ... 3.9	11.60
SPB 16N50C3	SP000014895	P-TO263-3-2	500	0.28	2.1 ... 3.9	16.00
SPB 21N50C3	SP000013833	P-TO263-3-2	500	0.19	2.1 ... 3.9	21.00
SPD 02N50C3	SP000014476	PG-TO252-3-1	500	3.00	2.1 ... 3.9	1.80
SPD 03N50C3	SP000014289	PG-TO252-3-1	500	1.40	2.1 ... 3.9	3.20
SPD 04N50C3	SP000014479	P-TO252-3-1	500	0.95	2.1 ... 3.9	4.50
▼ SPD 04N50C3	SP000077609	PG-TO252-3-1	500	0.95	2.1 ... 3.9	4.50
SPD 08N50C3	SP000013835	P-TO252-3-1	500	0.60	2.1 ... 3.9	7.60
SPI 08N50C3	SP000014461	PG-TO262-3-1	500	0.60	2.1 ... 3.9	7.60
SPI 12N50C3	SP000014467	PG-TO262-3-1	500	0.38	2.1 ... 3.9	11.60
SPI 16N50C3	SP000014470	PG-TO262-3-1	500	0.28	2.1 ... 3.9	16.00
SPI 21N50C3	SP000014463	PG-TO262-3-1	500	0.19	2.1 ... 3.9	21.00
SPP 04N50C3	SP000014478	P-TO220-3-1	500	0.95	2.1 ... 3.9	4.50
SPP 08N50C3	SP000013834	P-TO220-3-1	500	0.60	2.1 ... 3.9	7.60
SPP 12N50C3	SP000014459	P-TO220-3-1	500	0.38	2.1 ... 3.9	11.60
SPP 16N50C3	SP000014460	P-TO220-3-1	500	0.28	2.1 ... 3.9	16.00
SPP 21N50C3	SP000013832	P-TO220-3-1	500	0.19	2.1 ... 3.9	21.00
SPW 12N50C3	SP000014469	PG-TO247-3-1	500	0.38	2.1 ... 3.9	11.60
SPW 16N50C3	SP000014472	PG-TO247-3-1	500	0.28	2.1 ... 3.9	16.00
SPW 21N50C3	SP000014464	PG-TO247-3-1	500	0.19	2.1 ... 3.9	21.00
SPW 32N50C3	SP000014625	PG-TO247-3-1	500	0.11	2.1 ... 3.9	32.00
SPW 52N50C3	SP000014626	PG-TO247-3-1	500	0.07	2.1 ... 3.9	52.00



SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel CoolMOS™ MOSFETs High Voltage 600 V

SPA 03N60C3	SP000216296	PG-TO220-3-31	600	1.40	2.1 ... 3.9	3.20
SPA 04N60C3	SP000216299	PG-TO220-3-31	600	0.95	2.1 ... 3.9	3.30
SPA 06N60C3	SP000216301	PG-TO220-3-31	600	0.75	2.1 ... 3.9	6.20
SPA 07N60C3	SP000216303	PG-TO220-3-31	600	0.60	2.1 ... 3.9	7.30
SPA 11N60C3	SP000216312	PG-TO220-3-31	600	0.38	2.1 ... 3.9	5.50
SPA 15N60C3	SP000216325	PG-TO220-3-31	600	0.28	2.1 ... 3.9	15.00
SPA 20N60C3	SP000216354	PG-TO220-3-31	600	0.19	2.1 ... 3.9	8.10
SPB 02N60C3	SP000013516	P-TO263-3-2	600	3.00	3.5 ... 5.5	2.00
SPB 02N60S5	SP000012388	P-TO263-3-2	600	3.00	2.1 ... 3.9	1.80
SPB 03N60C3	SP000013517	P-TO263-3-2	600	1.40	2.1 ... 3.9	3.20
SPB 03N60S5	SP000012341	P-TO263-3-2	600	1.40	3.5 ... 5.5	3.00
SPB 04N60C3	SP000013533	P-TO263-3-2	600	0.95	2.1 ... 3.9	4.50
SPB 04N60S5	SP000012364	P-TO263-3-2	600	0.95	3.5 ... 5.5	4.00
SPB 07N60C3	SP000013518	P-TO263-3-2	600	0.60	2.1 ... 3.9	7.30
SPB 07N60S5	SP000012111	P-TO263-3-2	600	0.60	3.5 ... 5.5	7.00
SPB 11N60C3	SP000013519	P-TO263-3-2	600	0.38	2.1 ... 3.9	11.00
SPB 11N60S5	SP000012373	P-TO263-3-2	600	0.38	3.5 ... 5.5	11.00
SPB 20N60C3	SP000013520	P-TO263-3-2	600	0.19	2.1 ... 3.9	20.00
SPB 20N60S5	SP000012112	P-TO263-3-2	600	0.19	3.5 ... 5.5	20.00
SPD 01N60C3	SP000012114	PG-TO252-3-1	600	6.00	2.1 ... 3.9	0.80
SPD 02N60C3	SP000013693	P-TO252-3-1	600	1.40	2.1 ... 3.9	3.20
▼ SPD 02N60C3	SP000077611	PG-TO252-3-1	600	1.40	2.1 ... 3.9	3.20
SPD 02N60S5	SP000012389	P-TO252-3-1	600	3.00	3.5 ... 5.5	2.00
▼ SPD 02N60S5	SP000083074	PG-TO252-3-1	600	3.00	3.5 ... 5.5	2.00
SPD 03N60C3	SP000013694	P-TO252-3-1	600	0.95	2.1 ... 3.9	4.50
▼ SPD 03N60C3	SP000081145	PG-TO252-3-1	600	0.95	2.1 ... 3.9	4.50
▼ SPD 03N60S5	SP000083076	PG-TO252-3-1	600	1.40	3.5 ... 5.5	3.00
SPD 04N60C3	SP000013656	P-TO252-3-1	600	0.95	2.1 ... 3.9	4.50
▼ SPD 04N60C3	SP000077604	PG-TO252-3-1	600	0.95	2.1 ... 3.9	4.50
SPD 04N60S5	SP000012374	P-TO252-3-1	600	0.95	3.5 ... 5.5	4.00
▼ SPD 04N60S5	SP000077613	PG-TO252-3-1	600	0.95	3.5 ... 5.5	4.00
SPD 06N60C3	SP000014696	P-TO252-3-1	600	0.75	2.1 ... 3.9	6.20
SPD 07N60C3	SP000013730	P-TO252-3-1	600	0.60	2.1 ... 3.9	7.30
▼ SPD 07N60C3	SP000077605	PG-TO252-3-1	600	0.60	2.1 ... 3.9	7.30
SPD 07N60S5	SP000012113	P-TO252-3-1	600	0.60	3.5 ... 5.5	7.00
▼ SPD 07N60S5	SP000077614	P-TO252-3-1	600	0.60	3.5 ... 5.5	7.00

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel CoolMOS™ MOSFETs High Voltage 600 V (cont'd)

SPI 07N60C3	SP000013521	P-TO262-3-1	600	0.60	2.1 ... 3.9	7.30
SPI 07N60S5	SP000013025	P-TO262-3-1	600	0.60	3.5 ... 5.5	7.30
SPI 11N60C3	SP000013522	P-TO262-3-1	600	0.38	2.1 ... 3.9	11.00
SPI 11N60S5	SP000013033	P-TO262-3-1	600	0.38	3.5 ... 5.5	11.00
SPI 15N60C3	SP000014528	P-TO262-3-1	600	0.28	2.1 ... 3.9	15.00
SPI 20N60C3	SP000014453	P-TO262-3-1	600	0.19	2.1 ... 3.9	20.00
SPN 01N60C3	SP000012411	SOT223	600	6.00	2.1 ... 3.9	0.30
SPN 02N60C3	SP000014454	SOT223	600	3.00	2.1 ... 3.9	0.40
▼ SPN 02N60C3 G	SP0000101878	SOT223	600	3.00	2.1 ... 3.9	0.40
SPN 02N60C3 E-6433	SP0000101883	SOT223	600	3.00	2.1 ... 3.9	0.40
SPN 02N60S5	SP000012412	SOT223	600	3.00	3.5 ... 5.5	0.40
SPN 03N60C3	SP000014455	SOT223	600	1.40	2.1 ... 3.9	0.70
SPN 03N60S5	SP000012413	SOT223	600	1.40	3.5 ... 5.5	0.70
SPN 04N60S5	SP000012414	SOT223	600	0.95	3.5 ... 5.5	0.80
SPP 02N60C3	SP000013523	P-TO220-3-1	600	3.00	2.1 ... 3.9	1.80
SPP 02N60S5	SP000012390	P-TO220-3-1	600	3.00	3.5 ... 5.5	2.00
SPP 03N60C3	SP000013524	P-TO220-3-1	600	1.40	2.1 ... 3.9	3.20
SPP 03N60S5	SP000012340	P-TO220-3-1	600	1.40	3.5 ... 5.5	3.00
SPP 04N60C3	SP000013534	P-TO220-3-1	600	0.95	2.1 ... 3.9	4.50
SPP 04N60S5	SP000012363	P-TO220-3-1	600	0.95	3.5 ... 5.5	4.00
SPP 06N60C3	SP000014697	P-TO220-3-1	600	0.75	2.1 ... 3.9	6.20
SPP 07N60C3	SP000013525	P-TO220-3-1	600	0.60	2.1 ... 3.9	7.30
SPP 07N60S5	SP000012115	P-TO220-3-1	600	0.60	3.5 ... 5.5	7.00
SPP 11N60C3	SP000013526	P-TO220-3-1	600	0.38	2.1 ... 3.9	11.00
SPP 11N60S5	SP000012375	P-TO220-3-1	600	0.38	3.5 ... 5.5	11.00
SPP 15N60C3	SP000014527	P-TO220-3-1	600	0.28	2.1 ... 3.9	15.00
SPP 20N60C3	SP000013527	P-TO220-3-1	600	0.19	2.1 ... 3.9	20.00
SPP 20N60S5	SP000012116	P-TO220-3-1	600	0.19	3.5 ... 5.5	20.00
SPP 24N60C3	SP000014690	P-TO220-3-1	600	0.16	2.1 ... 3.9	24.00
SPU 01N60C3	SP000012110	P-TO251-3-1	600	6.00	2.1 ... 3.9	0.80
SPU 02N60C3	SP000015064	P-TO251-3-1	600	3.00	2.1 ... 3.9	1.80
SPU 02N60S5	SP000012422	P-TO251-3-1	600	3.00	3.5 ... 5.5	1.80
SPU 03N60S5	SP000012423	P-TO251-3-1	600	1.40	3.5 ... 5.5	3.20
▼ SPU 04N60C3	SP000095850	P-TO251-3-1	600	0.95	2.1 ... 3.9	4.50
SPU 04N60S5	SP000012424	P-TO251-3-1	600	0.95	3.5 ... 5.5	4.50
▼ SPU 07N60C3	SP0000101635	P-TO251-3-1	600	0.60	2.1 ... 3.9	7.30
SPU 07N60S5	SP000012109	P-TO251-3-1	600	0.60	3.5 ... 5.5	7.30
SPW 11N60C3	SP000013728	P-TO247-3-1	600	0.38	2.1 ... 3.9	11.00
SPW 11N60S5	SP000012462	P-TO247-3-1	600	0.38	3.5 ... 5.5	11.00
SPW 15N60C3	SP000014530	P-TO247-3-1	600	0.28	2.1 ... 3.9	15.00
SPW 20N60C3	SP000013729	P-TO247-3-1	600	0.19	2.1 ... 3.9	20.00
SPW 20N60S5	SP000012463	P-TO247-3-1	600	0.19	3.5 ... 5.5	20.00
SPW 24N60C3	SP000014695	P-TO247-3-1	600	0.16	2.1 ... 3.9	24.00
SPW 35N60C3	SP000014970	P-TO247-3-1	600	0.10	2.1 ... 3.9	34.60
SPW 47N60C3	SP000013953	P-TO247-3-1	600	0.07	2.1 ... 3.9	47.00

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### CoolMOS™ CP Power MOSFETs High Voltage 600 V

▼ IPA 60R125CP	SP000095275	PG-TO220-3-31	600	0.125	2.5 ... 3.5	25.00
▼ IPA 60R165CP	SP000096437	PG-TO220-3-31	600	0.165	2.5 ... 3.5	21.00
▼ IPA 60R199CP	SP000094146	PG-TO220-3-31	600	0.199	2.5 ... 3.5	16.00
▼ IPA 60R299CP	SP000096438	PG-TO220-3-31	600	0.299	2.5 ... 3.5	11.00
▼ IPA 60R385CP	SP000089316	PG-TO220-3-31	600	0.385	2.5 ... 3.5	9.00
▼ IPB 60R099CP	SP000088490	PG-TO263-3-2	600	0.099	2.5 ... 3.5	31.00
▼ IPB 60R165CP	SP000096439	PG-TO263-3-2	600	0.165	2.5 ... 3.5	21.00
▼ IPB 60R199CP	SP000223256	PG-TO263-3-2	600	0.199	2.5 ... 3.5	16.00
▼ IPB 60R385CP	SP000228365	PG-TO263-3-2	600	0.385	2.5 ... 3.5	9.00
▼ IPD 60R385CP	SP000062533	PG-TO252-3-1	600	0.385	2.5 ... 3.5	9.00
▼ IPI 60R199CP	SP000103248	PG-TO262-3-1	600	0.199	2.5 ... 3.5	16.00
▼ IPI 60R299CP	SP000103249	PG-TO262-3-1	600	0.299	2.5 ... 3.5	11.00
▼ IPI 60R385CP	SP000103250	PG-TO252-3-1	600	0.385	2.5 ... 3.5	9.00
▼ IPP 60R099CP	SP000057021	PG-TO220-3-1	600	0.099	2.5 ... 3.5	31.00
▼ IPP 60R125CP	SP000088488	PG-TO220-3-1	600	0.125	2.5 ... 3.5	21.00
▼ IPP 60R165CP	SP000084279	PG-TO220-3-1	600	0.165	2.5 ... 3.5	25.00
▼ IPP 60R199CP	SP000084278	PG-TO220-3-1	600	0.199	2.5 ... 3.5	16.00
▼ IPP 60R299CP	SP000084280	PG-TO220-3-1	600	0.299	2.5 ... 3.5	11.00
▼ IPP 60R385CP	SP000082281	PG-TO220-3-1	600	0.385	2.5 ... 3.5	9.00
▼ IPW 60R045CP	SP000067149	PG-TO247-3-1	600	0.045	2.5 ... 3.5	60.00
▼ IPW 60R099CP	SP000067147	PG-TO247-3-1	600	0.099	2.5 ... 3.5	31.00
▼ IPW 60R125CP	SP000088489	PG-TO247-3-1	600	0.125	2.5 ... 3.5	25.00
▼ IPW 60R165CP	SP000095483	PG-TO247-3-1	600	0.165	2.5 ... 3.5	21.00
▼ IPW 60R199CP	SP000089802	PG-TO247-3-1	600	0.199	2.5 ... 3.5	16.00
▼ IPW 60R299CP	SP000103251	PG-TO247-3-1	600	0.299	2.5 ... 3.5	11.00

### CoolMOS™ MOSFETs CFD for ZVS Applications (with fast body diode) High Voltage 600 V

▼ SPA 11N60CFD	SP000216317	PG-TO220-3-31	600	0.22	3.0 ... 5.0	8.30
▼ SPA 20N60CFD	SP000216361	PG-TO220-3-31	600	0.44	3.0 ... 5.0	11.00
SPP 11N60CFD	SP000014533	PG-TO220-3-1	600	0.22	3.0 ... 5.0	8.30
SPP 20N60CFD	SP000014475	PG-TO220-3-1	600	0.22	3.0 ... 5.0	20.70
SPW 11N60CFD	SP000014534	PG-TO247-3-1	600	0.44	3.0 ... 5.0	11.00
SPW 20N60CFD	SP000014535	PG-TO247-3-1	600	0.22	3.0 ... 5.0	20.00
▼ SPW 35N60CFD	SP000065487	PG-TO247-3-1	600	0.12	3.0 ... 5.0	34.10
▼ SPW 47N60CFD	SP000065376	PG-TO247-3-1	600	0.08	3.0 ... 5.0	46.00

SMD = Surface Mounted Device



# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
			V	$\Omega$	V	A

## Power Transistors

### N-Channel CoolMOS™ MOSFETs High Voltage 650 V

SPA 07N65C3	SP000216305	PG-TO220-3-31	650	0.60	2.1 ... 3.9	7.30
SPA 11N65C3	SP000216318	PG-TO220-3-31	650	0.38	2.1 ... 3.9	11.00
SPA 20N65C3	SP000216362	PG-TO220-3-31	650	0.19	2.1 ... 3.9	20.70
SPI 07N65C3	SP000014632	P-TO220-3-31	650	0.60	2.1 ... 3.9	7.30
SPI 11N65C3	SP000014526	P-TO262-3-1	650	0.38	2.1 ... 3.9	11.00
SPI 20N65C3	SP000014525	P-TO262-3-1	650	0.19	2.1 ... 3.9	20.70
SPP 07N65C3	SP000014631	P-TO220-3-31	650	0.60	2.1 ... 3.9	7.30
SPP 11N65C3	SP000014371	P-TO220-3-31	650	0.38	2.1 ... 3.9	11.00
SPP 20N65C3	SP000014369	P-TO220-3-31	650	0.10	2.1 ... 3.9	20.70

### N-Channel CoolMOS™ MOSFETs High Voltage 800 V

SPA 02N80C3	SP000216295	PG-TO220-3-31	800	2.70	2.1 ... 3.9	2.00
SPA 04N80C3	SP000216300	PG-TO220-3-31	800	2.70	2.1 ... 3.9	2.00
SPA 06N80C3	SP000216302	PG-TO220-3-31	800	0.90	2.1 ... 3.9	6.00
SPA 08N80C3	SP000216310	PG-TO220-3-31	800	0.65	2.1 ... 3.9	8.00
SPA 11N80C3	SP000216320	PG-TO220-3-31	800	0.45	2.1 ... 3.9	11.00
SPA 17N80C3	SP000216353	PG-TO220-3-31	800	0.29	2.1 ... 3.9	17.00
SPB 17N80C3	SP000013370	P-TO263-3-2	800	0.29	2.0 ... 4.0	17.00
SPD 02N80C3	SP000014822	P-TO252-3-1	800	2.70	2.1 ... 3.9	2.00
SPD 04N80C3	SP000014524	P-TO252-3-1	800	1.30	2.1 ... 3.9	4.00
▼ SPD 04N80C3	SP000077607	PG-TO252-3-1	800	1.30	2.1 ... 3.9	4.00
SPD 06N80C3	SP000013364	P-TO252-3-1	800	0.90	2.0 ... 4.0	6.00
▼ SPD 06N80C3	SP000077606	PG-TO252-3-1	800	0.90	2.0 ... 4.0	6.00
SPI 08N80C3	SP000014819	P-TO262-3-1	800	0.65	2.1 ... 3.9	8.00
SPP 02N80C3	SP000013732	P-TO220-3-1	800	2.70	2.1 ... 3.9	2.00
SPP 04N80C3	SP000013706	P-TO220-3-1	800	1.30	2.1 ... 3.9	4.00
SPP 06N80C3	SP000013366	P-TO220-3-1	800	0.90	2.0 ... 4.0	6.00
SPP 08N80C3	SP000013704	P-TO220-3-1	800	0.90	2.1 ... 3.9	8.00
SPP 11N80C3	SP000013701	P-TO220-3-1	800	0.45	2.1 ... 3.9	11.00
SPP 17N80C3	SP000013354	P-TO220-3-1	800	0.29	2.1 ... 3.9	17.00
SPW 11N80C3	SP000013703	P-TO247-3-1	800	0.45	2.1 ... 3.9	11.00
SPW 17N80C3	SP000013369	P-TO247-3-1	800	0.29	2.0 ... 4.0	17.00
▼ SPW 17N80C3	SP000101842	PG-TO247-3-1	800	0.29	2.0 ... 4.0	17.00

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{CE}$	$I_C$	$P_{tot}$	$R_{thJC}$
			V	A	W	K/W

## Power Transistors

### IGBT Power Transistors 600 V

SGB 02N60	SP000011978	P-TO263-3-2	600	2	50	≤ 4.2
SGB 04N60	SP000011979	P-TO263-3-2	600	4	50	≤ 2.5
SGB 06N60	SP000011980	P-TO263-3-2	600	6	70	≤ 1.85
SGB 10N60	SP000011981	P-TO263-3-2	600	10	125	≤ 1.0
SGB 10N60A	SP000013790	P-TO263-3-2	600	10	92	1.35
SGB 15N60	SP000011983	P-TO263-3-2	600	15	135	≤ 0.9
▼ SGB 15N60 E-3261	SP000011982	P-TO263-3-2	600	15	135	≤ 0.9
SGB 20N60	SP000011984	P-TO263-3-2	600	20	175	≤ 0.7
SGB 30N60	SP000011985	P-TO263-3-2	600	30	250	≤ 0.5
SGD 02N60	SP000011993	P-TO252-3-1	600	2	30	≤ 4.2
SGD 04N60	SP000011994	P-TO252-3-1	600	4	50	≤ 2.5
SGD 06N60	SP000011995	P-TO252-3-1	600	6	70	≤ 1.85
SGP 02N60	SP000011986	P-TO220-3-1	600	2	50	≤ 4.2
SGP 04N60	SP000011987	P-TO220-3-1	600	4	50	≤ 2.5
SGP 06N60	SP000011988	P-TO220-3-1	600	6	70	≤ 1.85
SGP 10N60	SP000011989	P-TO220-3-1	600	10	125	≤ 1.0
SGP 10N60A	SP000013743	P-TO220-3-1	600	10	92	1.35
SGP 15N60	SP000011990	P-TO220-3-1	600	15	135	≤ 0.9
SGP 20N60	SP000011991	P-TO220-3-1	600	20	175	≤ 0.7
SGP 30N60	SP000011992	P-TO220-3-1	600	30	250	≤ 0.5
SGW 10N60	SP000012464	P-TO247-3-1	600	10	104	≤ 1.2
SGW 10N60A	SP000013742	P-TO247-3-1	600	10	92	1.35
SGW 15N60	SP000012465	P-TO247-3-1	600	15	138	≤ 0.9
SGW 20N60	SP000012466	P-TO247-3-1	600	20	178	≤ 0.7
SGW 30N60	SP000012467	P-TO247-3-1	600	30	250	≤ 0.5
▼ SKD 04N60 LV	SP000014295	P-TO252-3-1	600	5	50	≤ 2.5

### IGBT Power Transistors 1200 V

▼ BUP 212	SP000011971	P-TO220-3-1	1200	22	125	≤ 1.0
▼ BUP 212 E-3045 A	SP000013752	P-TO263-3-2	1200	22	125	≤ 1.0
▼ BUP 213	SP000011326	P-TO220-3-1	1200	30	200	≤ 0.63
▼ BUP 213 E-3045 A	SP000012387	P-TO263-3-2	1200	30	200	≤ 0.63
▼ BUP 311 D	SP000011954	P-TO218-3-1	1200	12	125	≤ 1.0
▼ BUP 313	SP000011327	P-TO218-3-1	1200	30	200	≤ 0.63
▼ BUP 313 D	SP000011328	P-TO218-3-1	1200	32	200	≤ 0.63
▼ BUP 314	SP000011329	P-TO218-3-1	1200	52	300	≤ 0.42
▼ BUP 314 D	SP000011330	P-TO218-3-1	1200	42	300	≤ 0.42
SGB 02N120	SP000012558	P-TO263-3-2	1200	12	125	≤ 1.0
SGB 07N120	SP000012559	P-TO263-3-2	1200	7	125	≤ 1.0
SGB 15N120	SP000012560	P-TO263-3-2	1200	15	198	≤ 0.63
SGD 02N120	SP000012566	P-TO252-3-1	1200	2	62	≤ 2.0
▼ SGI 02N120	SP000012885	P-TO262-3-1	1200	2	62	≤ 2.0
SGP 02N120	SP000012561	P-TO220-3-1	1200	2	62	≤ 2.0
SGP 07N120	SP000012562	P-TO220-3-1	1200	7	125	≤ 1.0
SGP 15N120	SP000012563	P-TO220-3-1	1200	15	198	≤ 0.63
SGW 15N120	SP000012564	P-TO247-3-1	1200	15	198	≤ 0.63
SGW 25N120	SP000012565	P-TO247-3-1	1200	25	313	≤ 0.4

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{CE}$	$I_C$	$P_{tot}$	$R_{thJC}$
			V	A	W	K/W

## Power Transistors

### IGBT Power Transistors

#### Fast DuoPack™ (IGBT + EmCon™ Diode)

##### 600 V

▼ SKA 06N60	SP000215379	PG-TO220-3-1	600	6	32	≤ 3.9
SKB 02N60	SP000012416	P-TO263-3-2	600	2	30	≤ 4.2
▼ SKB 02N60 E-3266	SP000012417	P-TO263-3-2	600	2	30	≤ 4.2
SKB 04N60	SP000012425	P-TO263-3-2	600	4	50	≤ 2.5
SKB 06N60	SP000012427	P-TO263-3-2	600	6	68	≤ 1.85
SKB 10N60	SP000012420	P-TO263-3-2	600	10	92	≤ 1.35
SKB 10N60A	SP000013740	P-TO263-3-2	600	10	92	≤ 1.35
SKB 15N60	SP000012429	P-TO263-3-2	600	15	139	≤ 0.9
▼ SKB 15N60 E-8151	SP000012430	P-TO263-3-2	600	15	139	≤ 0.9
SKP 02N60	SP000012421	P-TO220-3-1	600	2	30	≤ 4.2
SKP 04N60	SP000012418	P-TO220-3-1	600	4	50	≤ 2.5
SKP 06N60	SP000012426	P-TO220-3-1	600	6	68	≤ 1.85
SKP 10N60	SP000012419	P-TO220-3-1	600	10	92	≤ 1.35
SKP 10N60A	SP000013739	P-TO220-3-1	600	10	92	≤ 1.35
SKP 15N60	SP000012428	P-TO220-3-1	600	15	139	≤ 0.9
SKW 10N60	SP000012481	P-TO247-3-1	600	10	92	≤ 1.35
SKW 10N60A	SP000013741	P-TO247-3-1	600	10	92	≤ 1.35
SKW 15N60	SP000012482	P-TO247-3-1	600	15	139	≤ 0.9
SKW 20N60	SP000012483	P-TO247-3-1	600	20	179	≤ 0.7
SKW 30N60	SP000012484	P-TO247-3-1	600	30	250	≤ 0.5

### IGBT Power Transistors

#### Fast DuoPack™ (IGBT + EmCon™ Diode)

##### 1200 V

SKB 02N120	SP000012567	P-TO263-3-2	1200	2	62	≤ 2.0
SKP 02N120	SP000012568	P-TO220-3-1	1200	2	62	≤ 2.0
SKW 07N120	SP000012569	P-TO247-3-1	1200	8	125	≤ 1.0
SKW 15N120	SP000012570	P-TO247-3-1	1200	15	198	≤ 0.63
SKW 25N120	SP000012571	P-TO247-3-1	1200	25	313	≤ 0.4

### IGBT Power Transistors (High Speed)

SGB 15N60HS	SP000014134	P-TO263-3-2	600	15	138	≤ 0.9
▼ SGB 15N60HS	SP000056421	PG-TO263-3-2	600	15	138	≤ 0.9
SGP 20N60HS	SP000013838	P-TO220-3-1	600	20	178	≤ 0.7
SGP 30N60HS	SP000013839	P-TO220-3-1	600	30	250	≤ 0.5
SGW 20N60HS	SP000013771	P-TO247-3-1	600	20	178	≤ 0.7
SGW 30N60HS	SP000013770	P-TO247-3-1	600	30	250	≤ 0.5
▼ SGW 50N60HS	SP000089248	P-TO247-3-1	600	50	416	≤ 0.3

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{CE}$ V	$I_C$ A	$P_{tot}$ W	$R_{thJC}$ K/W

## Power Transistors

### IGBT Power Transistors (High Speed-2)

▼ IGA 03N120H2	SP000215371	PG-TO220-3-31	1200	3	29	≤ 4.3
▼ IGA 03N120H2 E-8153	SP000015372	PG-TO220-3-34	1200	3	29	≤ 4.3
IGB 01N120H2	SP000014614	P-TO263-3-2	1200	1	28	≤ 4.5
IGB 03N120H2	SP000014616	P-TO263-3-2	1200	3	62.5	≤ 2.0
IGD 01N120H2	SP000014523	P-TO252-3-1	1200	1	28	≤ 4.5
IGP 01N120H2	SP000014615	P-TO220-3-1	1200	1	28	≤ 4.5
IGP 03N120H2	SP000014617	P-TO220-3-1	1200	3	62.5	≤ 2.0
IGW 03N120H2	SP000014182	P-TO247-3-1	1200	3	62.5	≤ 2.0

### IGBT Power Transistors

#### High Speed DuoPack™ (IGBT + EmCon™ Diode)

▼ SKB 06N60HS	SP000014222	P-TO263-3-2	600	6	68	≤ 1.85
SKB 15N60HS	SP000014221	P-TO263-3-2	600	15	138	≤ 0.90
SKW 20N60HS	SP000013772	P-TO247-3-1	600	20	178	≤ 0.70
SKW 30N60HS	SP000013744	P-TO247-3-1	600	30	250	≤ 0.50

#### High Speed-2 DuoPack™ (IGBT + EmCon™ Diode)

▼ IKA 03N120H2	SP000215373	PG-TO220-3-31	1200	3	29	≤ 4.30
▼ IKA 03N120H2 E-8153	SP000215374	PG-TO220-3-34	1200	3	29	≤ 4.30
IKB 01N120H2	SP000014271	P-TO263-3-2	1200	1	28	≤ 4.50
IKB 03N120H2	SP000014272	P-TO263-3-2	1200	3	62.5	≤ 2.00
IKP 01N120H2	SP000014179	P-TO220-3-1	1200	1	28	≤ 4.50
IKP 03N120H2	SP000014180	P-TO220-3-1	1200	3	62.5	≤ 2.00
IKW 03N120H2	SP000014181	P-TO247-3-1	1200	3	62.5	≤ 2.00

### LightMOS Lighting IGBT

#### 600 V

▼ ILD 03N60	SP000014338	P-TO252-3-21	600	3	27	≤ 4.70
▼ ILD 03N60	SP000077615	PG-TO252-3-21	600	3	27	≤ 4.70

SMD = Surface Mounted Device



# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{CE}$	$I_C$	$P_{tot}$	$R_{thJC}$
			V	A	W	K/W

## Power Transistors

### IGBT Power Transistors TrenchStop 600 V

IGB 15N60T	SP000054921	P-TO263-3-2	600	15	130	≤ 1.15
▼ IGB 30N60T	SP000095765	P-TO263-3-2	600	30	187	≤ 0.80
IGB 50N60T	SP000054922	P-TO263-3-2	600	50	333	≤ 0.45
▼ IGP 06N60T	SP000095766	P-TO220-3-1	600	6	88	≤ 1.70
IGP 10N60T	SP000016446	P-TO220-3-1	600	10	187	≤ 0.80
▼ IGP 15N60T	SP000095767	P-TO220-3-1	600	15	130	≤ 1.15
IGP 30N60T	SP000054923	P-TO220-3-1	600	30	333	≤ 0.45
IGP 50N60T	SP000054924	P-TO220-3-1	600	50	333	≤ 0.45
IGW 30N60T	SP000054925	P-TO247-3-1	600	30	333	≤ 0.45
IGW 50N60T	SP000054926	P-TO247-3-1	600	50	333	≤ 0.45
IGW 75N60T	SP000054927	P-TO247-3-1	600	75	428	≤ 0.35

### IGBT Power Transistors TrenchStop 1200 V

IGW 08T120	SP000013937	P-TO247-3-1	1200	8	70	≤ 1.70
IGW 15T120	SP000013888	P-TO247-3-1	1200	15	110	≤ 1.10
IGW 25T120	SP000013887	P-TO247-3-1	1200	25	190	≤ 0.65
IGW 40T120	SP000013886	P-TO247-3-1	1200	40	270	≤ 0.45
IGW 60T120	SP000013906	P-TO247-3-1	1200	60	375	≤ 0.33

### IGBT Power Transistors TrenchStop DuoPack™ (IGBT + EmCon™ Diode) 600 V

▼ IKA 06N60T	SP000215375	PG-TO220-3-1	600	6	28	≤ 5.30
▼ IKA 10N60T	SP000215376	PG-TO220-3-1	600	10	30	≤ 5.00
▼ IKA 15N60T	SP000215377	PG-TO220-3-1	600	15	36	≤ 4.20
IKB 06N60T	SP000014954	P-TO263-3-2	600	6	88	≤ 1.70
IKB 10N60T	SP000014833	P-TO263-3-2	600	10	110	≤ 1.35
IKB 15N60T	SP000054882	P-TO263-3-2	600	15	130	≤ 1.15
IKB 20N60T	SP000054883	P-TO263-3-2	600	20	166	≤ 0.90
IKP 04N60T	SP000054884	P-TO220-3-1	600	4	42	≤ 3.50
IKP 06N60T	SP000014953	P-TO220-3-1	600	6	88	≤ 1.70
IKP 10N60T	SP000014753	P-TO220-3-1	600	10	110	≤ 1.35
▼ IKP 15N60T	SP000095768	P-TO220-3-1	600	15	130	≤ 1.15
IKP 20N60T	SP000054885	P-TO220-3-1	600	20	166	≤ 0.90
IKW 20N60T	SP000054886	P-TO247-3-1	600	20	166	≤ 0.90
IKW 30N60T	SP000054887	P-TO247-3-1	600	30	187	≤ 0.80
IKW 50N60T	SP000054888	P-TO247-3-1	600	50	333	≤ 0.45
IKW 75N60T	SP000054889	P-TO247-3-1	600	75	428	≤ 0.35

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{CE}$	$I_C$	$P_{tot}$	$R_{thJC}$
			V	A	W	K/W

## Power Transistors

### IGBT Power Transistors

#### TrenchStop DuoPack™ (IGBT + EmCon™ Diode)

##### 1200 V

IHP 10T120	SP000014951	P-TO220-3-1	1200	10	138	≤ 0.90
IHW 15T120	SP000014892	P-TO247-3-1	1200	15	113	≤ 1.10
IHW 20T120	SP000014881	P-TO247-3-1	1200	20	178	≤ 0.70
IHW 40T120	SP000014893	P-TO247-3-1	1200	40	270	≤ 0.45
IKW 08T120	SP000013885	P-TO247-3-1	1200	8	70	≤ 1.70
IKW 15T120	SP000013938	P-TO247-3-1	1200	15	110	≤ 1.10
IKW 25T120	SP000013939	P-TO247-3-1	1200	25	190	≤ 0.65
IKW 40T120	SP000013940	P-TO247-3-1	1200	40	270	≤ 0.45

#### TrenchStop DuoPack™ (IGBT + EmCon™ Diode)

##### for induction cooking

##### 600 V

▼ IHW 30N60T	SP000076306	P-TO247-3-1	600	30	187	≤ 0.80
▼ IHW 40N60T	SP000076321	P-TO247-3-1	600	40	303	≤ 0.49

#### TrenchStop DuoPack™ (IGBT + EmCon™ Diode)

##### for induction cooking

##### 900 V

▼ IHW 30N90R	SP000209140	P-TO247-3-1	900	30	428	≤ 0.35
▼ IHW 30N90T	SP000076322	P-TO247-3-1	900	30	428	≤ 0.35

#### TrenchStop DuoPack™ (IGBT + EmCon™ Diode)

##### for induction cooking

##### 1000 V

▼ IHW 30N100R	SP000212224	PG-TO247-3-21	1000	30	412	≤ 0.36
▼ IHW 30N100T	SP000086713	PG-TO247-3-21	1000	30	412	≤ 0.36

#### TrenchStop DuoPack™ (IGBT + EmCon™ Diode)

##### for induction cooking

##### 1200 V

▼ IHW 15N120R	SP000080229	PG-TO247-3-21	1200	15	357	≤ 0.52
▼ IHW 15N120R2	SP000212014	PG-TO247-3-21	1200	15	357	≤ 0.52
▼ IHW 20N120R	SP000076323	PG-TO247-3-21	1200	20	357	≤ 0.42
▼ IHW 20N120R2	SP000212015	PG-TO247-3-21	1200	20	330	≤ 0.45
▼ IHW 30N120R	SP000076324	PG-TO247-3-21	1200	30	395	≤ 0.38
▼ IHW 30N120R2	SP000212017	PG-TO247-3-21	1200	30	390	≤ 0.38

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{RRM}$ V	$I_F$ A	$V_F$ V	$T_{jmax}$ °C

## Power Diodes

### EmCon™ Diodes 600 V

IDB 06E60	SP000014039	P-TO220-3-45	600	6	1.45	175
IDB 09E60	SP000013914	P-TO220-3-45	600	9	1.45	175
IDB 15E60	SP000014044	P-TO220-3-45	600	15	1.45	175
IDB 23E60	SP000014046	P-TO220-3-45	600	23	1.45	175
IDB 30E60	SP000013917	P-TO220-3-45	600	30	1.45	175
IDB 45E60	SP000013635	P-TO220-3-45	600	45	1.45	175
IDD 03E60	SP000013632	P-TO252-3-1	600	3	1.45	175
IDD 06E60	SP000013633	P-TO252-3-1	600	6	1.45	175
▼ IDD 06E60	SP000077586	PG-TO252-3-1	600	6	1.45	175
IDD 09E60	SP000013634	P-TO252-3-1	600	9	1.45	175
IDD 15E60	SP000013915	P-TO252-3-1	600	15	1.45	175
▼ IDD 15E60	SP000077587	PG-TO252-3-1	600	15	1.45	175
IDD 23E60	SP000013916	P-TO252-3-1	600	23	1.45	175
▼ IDD 23E60	SP000077588	P-TO252-3-1	600	23	1.45	175
IDP 06E60	SP000014040	P-TO220-2-2	600	6	1.45	175
IDP 09E60	SP000014043	P-TO220-2-2	600	9	1.45	175
IDP 15E60	SP000014045	P-TO220-2-2	600	15	1.45	175
IDP 23E60	SP000014047	P-TO220-2-2	600	23	1.45	175
IDP 30E60	SP000014048	P-TO220-2-2	600	30	1.45	175
IDP 45E60	SP000013797	P-TO220-2-2	600	45	1.45	175
▼ IDW 75E60	SP000227824	PG-TO247-3-1	600	75	1.45	175
▼ IDW 100E60	SP000227825	PG-TO247-3-1	600	100	1.45	175

### EmCon™ Diodes 1200 V

IDB 04E120	SP000013639	P-TO220-3-45	1200	4	1.65	150
IDB 09E120	SP000013918	P-TO220-3-45	1200	9	1.65	150
IDB 12E120	SP000013640	P-TO220-3-45	1200	12	1.65	150
IDB 18E120	SP000013919	P-TO220-3-45	1200	18	1.65	150
IDB 30E120	SP000013641	P-TO220-3-45	1200	30	1.65	150
IDP 04E120	SP000013798	P-TO220-2-2	1200	4	1.65	150
IDP 09E120	SP000014041	P-TO220-2-2	1200	9	1.65	150
IDP 12E120	SP000013799	P-TO220-2-2	1200	12	1.65	150
IDP 18E120	SP000014042	P-TO220-2-2	1200	18	1.65	150
IDP 30E120	SP000013800	P-TO220-2-2	1200	30	1.65	150

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data		
			$V_{RR}$	$I_{FR}$	$t$
			V	A	ns

## Power Diodes

### Fast-Recovery Epitaxial Diodes (FRED)

▼ BYP 303	SP000011384	P-TO218-2-1	1200	60	150
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Type	Ordering Code	Package	Data		
			$V_{RRm}$	$I_F$	$Q_C$
			V	A	ns

### Silicon Carbide Ultrafast Schottky Diodes thinQ!<sup>TM</sup> 300 V

SDB 20S30	SP000013514	P-TO220-3-45	300	2 x 10	23
SDP 10S30	SP000013359	P-TO220-3-1	300	10	23
SDP 20S30	SP000013625	P-TO220-3-1	300	2 x 10	23
SDT 10S30	SP000013824	P-TO220-2-2	300	10	23

### Silicon Carbide Ultrafast Schottky Diodes thinQ!<sup>TM</sup> 600 V

SDB 06S60	SP000013624	P-TO220-3-45	600	6	21
SDD 04S60	SP000013515	P-TO252-3-1	600	4	13
▼ SDD 04S60	SP000077602	PG-TO252-3-1	600	4	13
SDP 04S60	SP000013358	P-TO220-3-1	600	4	13
SDP 06S60	SP000013357	P-TO220-3-1	600	6	21
SDT 04S60	SP000013822	P-TO220-2-2	600	4	13
SDT 05S60	SP000014671	P-TO220-2-2	600	5	14
SDT 06S60	SP000013823	P-TO220-2-2	600	6	21
SDT 08S60	SP000014897	P-TO220-2-2	600	8	24
SDT 10S60	SP000014896	P-TO220-2-2	600	10	29
SDT 12S60	SP000013825	P-TO220-2-2	600	12	30

### Silicon Carbide Ultrafast Schottky Diodes thinQ!<sup>TM</sup> 2nd Generation 600 V

▼ IDD 04S60C	SP000080224	PG-TO252-3-1	600	4	8
▼ IDT 04S60C	SP000080225	P-TO220-3-1	600	4	8
▼ IDT 05S60C	SP000096441	P-TO220-3-1	600	5	12
▼ IDT 06S60C	SP000096442	P-TO220-3-1	600	6	15
▼ IDT 08S60C	SP000080226	P-TO220-3-1	600	8	19
▼ IDT 10S60C	SP000096443	P-TO220-3-1	600	2 x 5	24
▼ IDT 12S60C	SP000096444	P-TO220-3-1	600	2 x 6	30
▼ IDT 16S60C	SP000080227	P-TO220-3-1	600	2 x 8	38

SMD = Surface Mounted Device





# Power Semiconductors

Type	Ordering Code	Package	Data		
			$V_{DS}$	$I_{L-ISO-Norm}$	$R_{DS(on)}$
			V	A	mΩ

## Smart Low Side Switches

### TEMPFET®

#### N-Channel Enhancement Types

BTS 110	SP000011184	P-TO220-3-1	100	1.75	200
▼ BTS 110 E-3045A	SP000011183	P-TO220-3-45	100	1.75	200
BTS 112A	SP000011185	P-TO220-3-1	60	2.5	150
▼ BTS 112A E-3045A	SP000011186	P-TO220-3-45	60	2.5	150
BTS 114A	SP000011191	P-TO220-3-1	50	3.8	100
▼ BTS 114A E-3045A	SP000011192	P-TO220-3-45	50	3.8	100
BTS 129	SP000011202	P-TO220-3-1	60	7.5	50
▼ BTS 129 E-3045A	SP000011203	P-TO220-3-45	60	7.5	50
BTS 240A	SP000011223	P-TO218-3-1	50	21	50

#### N-Channel Enhancement Types (Logic Level)

BTS 113A	SP000011187	P-TO220-3-1	60	2.2	170
BTS 113A E-3045A	SP000011188	P-TO220-3-45	60	2.2	170
▼ BTS 113A E-3064	SP000011189	P-TO220-3-64	60	2.2	170
BTS 115A	SP000011193	P-TO220-3-1	50	3.2	120
▼ BTS 115A E-3045A	SP000011194	P-TO220-3-45	50	3.2	120
BTS 121A	SP000011200	P-TO220-3-1	100	3.5	100
BTS 121A E-3045A	SP000011201	P-TO220-3-45	100	3.5	100
BTS 131	SP000011204	P-TO220-3-1	50	6.5	60
BTS 131 E-3045A	SP000011206	P-TO220-3-45	50	6.5	60
▼ BTS 132 E-3045A	SP000011210	P-TO220-3-45	60	6.0	65
▼ BTS 132 E-3064	SP000011209	P-TO220-3-64	60	6.0	65
▼ BTS 132 E-3129	SP000011208	P-TO220-3-129	60	6.0	65

### SPEED TEMPFET®

#### N-Channel Enhancement Types

BTS 244Z	SP000012177	P-TO220-5-3	55	19	18
▼ BTS 244Z E-3043	SP000012178	P-TO220-5-43	55	19	18
BTS 244Z E-3062A	SP000012180	P-TO220-5-62	55	19	18
BTS 247Z	SP000012184	P-TO220-5-3	55	26	13
▼ BTS 247Z E-3043	SP000012185	P-TO220-5-43	55	26	13
BTS 247Z E-3062A	SP000012187	P-TO220-5-62	55	26	13
BTS 282Z	SP000012356	P-TO220-7-3	49	36	6.5
BTS 282Z E-3180A	SP000012360	P-TO220-7-180	49	36	6.5
▼ BTS 282Z E-3230	SP000012357	P-TO220-7-230	49	36	6.5

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data		
			$V_{DS}$	$I_{L-ISO-Norm}$	$R_{DS(on)}$
			V	A	mΩ

## Smart Low Side Switches

### HITFET®

BSP 75N	SP000013690	SOT223	> 60	0.7	550
▼ BSP 75N E-6327	SP000013689	SOT223	> 60	0.7	550
BSP 76 E-6327	SP000011146	SOT223	> 42	1.4	200
BSP 77 E-6327	SP000011150	SOT223	> 42	2.17	100
BSP 78 E-6327	SP000011155	SOT223	> 42	3.0	50
BTS 117	SP000011195	P-TO220-3-1	> 60	3.5	100
▼ BTS 117 E-3044A	SP000011198	P-TO220-3-44	> 60	3.5	100
BTS 117 E-3045A	SP000011197	P-TO220-3-45	> 60	3.5	100
BTS 118D	SP000011199	P-TO252-3-11	> 42	2.4	100
BTS 133	SP000011211	P-TO220-3-1	> 60	7	50
BTS 133 E-3045A	SP000011213	P-TO220-3-45	> 60	7	50
BTS 133 E-3064	SP000011212	P-TO220-3-45	> 60	7	50
BTS 134D	SP000011216	P-TO252-3-1	> 42	3.5	50
BTS 141	SP000011218	P-TO220-3-1	> 60	12	28
BTS 141 E-3045A	SP000011219	P-TO220-3-45	> 60	12	28
▼ BTS 141 E-3064	SP000011220	P-TO220-3-64	> 60	12	28
BTS 142D	SP000012175	P-TO252-3-1	> 42	4.6	28
BTS 3110N	SP000013948	SOT223	> 42	1.4	200
BTS 3118D	SP000013725	P-TO252--3-1	> 42	2.4	100
▼ BTS 3118N	SP000013724	SOT223	> 42	2.4	100
BTS 3134D	SP000013759	P-TO252-3-1	> 42	3.5	50
BTS 3134N	SP000013758	SOT223	> 42	3.5	50
BTS 3142D	SP000013760	P-TO252-3-1	> 42	4.6	28
BTS 3207N	SP000054875	SOT223	> 42	0.64	500
BTS 3408G (Dual)	SP000014072	P-DSO-8-3	> 60	1.0	2 x 550
▼ BTS 3410G (Dual)	SP000014334	P-DSO-8-3	> 42	1.3	2 x 200

3

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Description
<b>Smart Low Side Switches</b>			
<b>Multichannel HITFET®</b>			
TLE 4226G	SP000011756	P-DSO-24-3	6-fold low-side switch, 2 × 0.5 A, 4 × 50 mA
TLE 6214L	SP000014123	P-DSO-12-2	Dual current sense switch with SPI, 2 × 5 A
TLE 6215G	SP000013649	P-DSO-24-3	Two channel low-side switch, 2 × 4 A
TLE 6216G	SP000013652	P-DSO-20-12	Quad channel low-side switch, 2 × 5 A, 2 × 3 A
TLE 6217G	SP000013947	P-DSO-20-12	
TLE 6220GP	SP000011903	P-DSO-20-10	Quad channel low-side switch, 4 × 3 A
TLE 6225G	SP000012168	P-DSO-20-6	Quad channel low-side switch, 4 × 0.5 A
TLE 6228GP	SP000012154	P-DSO-20-10	Quad channel low-side switch, 2 × 5 A, 2 × 3 A
TLE 6230GP	SP000012169	P-DSO-36-10	Octal low-side switch, 8 × 1 A
TLE 6232GP	SP000012541	P-DSO-36-12	Six channel low-side switch, 4 × 3 A, 2 × 1.5 A
TLE 6236G	SP000012767	P-DSO-28-1	Octal channel low-side switch with SPI, 8 × 0.5 A
TLE 6237G	SP000014095	P-DSO-28-1	Octal channel low-side switch with SPI, 8 × 0.5 A
TLE 6240GP	SP000012171	P-DSO-36-10	16-fold low-side switch, 8 × 1 A, 8 × 3 A
TLE 6244X	SP000013785	P-MQFP-64-10	18-channel low-side switch with SPI, 2 × 3.0 A, 12 × 2.2 A, 4 × 1.1 A
TLE 6288R	SP000013727	P-DSO-36-10	6-channel low-side switch with SPI, 3-channel high side with adjustable P&H current control, 3-channel high/low side configurable
▼ TLE 7230G	SP000067169	P-DSO-24-3	SPI driver for enhanced relay control (SPIDER) 8-channel low side switch, tape & reel
▼ TLE 7230R	SP000067170	P-DSO-36-16	Smart octal low side switch, power, with SPI, tape & reel
▼ TLE 7232G	SP000089034	P-DSO-24-3	SPI driver for enhanced relay control (SPIDER) 8-channel low side switch, tape & reel



SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data		
			$V_{DS}$	$I_{L-ISO-Norm}$	$R_{DS(on)}$
			V	A	mΩ

## Smart High Side Switches

### PROFET® (for automotive applications)

BTS 307 E-3043	SP000011224	P-TO220-5-43	> 65	1.7	250
BTS 307 E-3062A	SP000011225	P-TO220-5-62	> 65	1.7	250
▼ BTS 308 E-3043	SP000011226	P-TO220-5-43	> 60	1.7	250
BTS 308 E-3062A	SP000011227	P-TO220-5-62	> 60	1.3	300
BTS 409L1	SP000011229	P-TO220-5-3	> 40	3.5	100
BTS 409L1 E-3043	SP000011230	P-TO220-5-43	> 40	2.3	200
▼ BTS 409L1 E-3062A	SP000011232	P-TO220-5-62	> 40	2.3	200
BTS 410E2	SP000011233	P-TO220-5-3	> 60	1.8	220
BTS 410E2 E-3043	SP000011234	P-TO220-5-43	> 60	1.8	220
BTS 410E2 E-3062A	SP000011235	P-TO220-5-62	> 60	1.8	220
BTS 410F2	SP000011236	P-TO220-5-3	> 60	1.8	220
BTS 410F2 E-3043	SP000011237	P-TO220-5-43	> 60	1.8	220
BTS 410F2 E-3062A	SP000016371	P-TO220-5-62	> 60	1.8	220
BTS 426L1	SP000011242	P-TO220-5-3	> 40	5.9	60
BTS 426L1 E-3043	SP000011243	P-TO220-5-43	> 40	5.9	60
BTS 426L1 E-3062A	SP000011244	P-TO220-5-62	> 40	5.9	60
BTS 428L2	SP000012188	P-TO252-3-1	> 40	7.0	60
BTS 432E2	SP000011248	P-TO220-5-3	> 60	11	38
BTS 432E2 E-3043	SP000011250	P-TO220-5-43	> 60	11	38
BTS 432E2 E-3062A	SP000011253	P-TO220-5-62	> 60	11	38
BTS 436L2	SP000011255	P-TO220-5-11	> 40	9.8	38
BTS 436L2G	SP000011257	P-TO263-5-2	> 40	9.8	38
BTS 436L2S	SP000011256	P-TO220-5-12	> 40	9.8	38
BTS 441RG	SP000013386	P-TO263-5-2	> 41	21	20
BTS 441RS	SP000013384	P-TO220-5-12	> 41	21	20
BTS 441T	SP000011258	P-TO220-5-11	> 40	21	20
BTS 441TG	SP000012295	P-TO263-5-2	> 40	21	20
BTS 441TS	SP000011259	P-TO220-5-12	> 40	21	20
BTS 442E2	SP000011260	P-TO220-5-3	> 60	21	20
BTS 442E2 E-3043	SP000011261	P-TO220-5-43	> 60	21	20
BTS 442E2 E-3062A	SP000011263	P-TO220-5-62	> 60	21	20
BTS 640S2	SP000011283	P-TO220-7-11	> 40	12.6	30
BTS 640S2G	SP000011284	P-TO263-7-2	> 40	12.6	30
BTS 640S2S	SP000011285	P-TO220-7-12	> 40	12.6	30
BTS 650P	SP000011287	P-TO220-7-3	> 42	60	6.6
BTS 650P E-3180A	SP000011289	P-TO220-7-180	> 42	60	6.6
▼ BTS 650P E-3230	SP000011292	P-TO220-7-230	> 42	60	6.6

### PROFET® (for industrial applications)

▼ ITS 410E2	SP000221219	P-TO220-5-3	> 60	1.8	220
▼ ITS 410E2 E-3043	SP000221227	P-TO220-5-43	> 60	1.8	220
▼ ITS 428L2	SP000221220	P-TO252-3-1	> 40	7.0	60
▼ ITS 436L2	SP000221231	P-TO220-5-11	> 40	9.8	38
▼ ITS 436L2S	SP000221232	P-TO220-5-12	> 40	9.8	38
▼ ITS 640S2	SP000221217	P-TO220-7-11	> 40	12.6	30
▼ ITS 640S2S	SP000221225	P-TO220-7-12	> 40	12.6	30

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data		
			$V_{DS}$	$I_{L-ISO-Norm}$	$R_{DS(on)}$
			V	A	mΩ

## Smart High Side Switches

### High Current PROFET®

BTS 443P	SP000012530	P-TO252-5-1	> 36	25	16
BTS 550P E-3146	SP000011264	P-TO218-5-146	> 40	115	3.6
▼ BTS 555	SP000011266	P-TO218-5-3	> 40	165	2.5
BTS 555 E-3146	SP000011265	P-TO218-5-146	> 40	165	2.5
BTS 660P	SP000012535	P-TO220-7-3	> 62	44	9.0
BTS 660P E-3180A	SP000012536	P-TO220-7-180	> 62	44	9.0
▼ BTS 6123B	SP000092062	P-TO220-7-180	> 38	9	10
▼ BTS 6123P	SP000092063	P-TO220-7-230	> 38	33	10
BTS 6133D	SP000014006	P-TO252-5-1	> 38	33	10
▼ BTS 6142D	SP000074866	P-TO252-5-1	> 38	27	12
BTS 6143D	SP000013143	P-TO252-5-1	> 38	33	10
BTS 6144B	SP000014073	P-TO220-7-180	> 38	37.5	9
BTS 6144P	SP000013171	P-TO220-7-230	> 38	37.5	9
BTS 6163D	SP000013196	P-TO252-5-1	> 62	17	20
BTS 6510B	SP000012532	P-TO220-7-180	> 42	70	6.0

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Type	Ordering Code	Package	Data			
			$V_{bb\ op}$	$I_{L-ISO-Norm}$	$R_{ON}$	$I_{L(lin)\ min}$
			V	mA	Ω	mA

### Mini PROFET® (for automotive applications)

BSP 452 E-6327	SP000011123	SOT223	5 ... 34	> 700	0.2	700
BSP 742R	SP000012105	P-DSO-8-6	5 ... 34	> 400	0.35	400
BSP 742RI	SP000012106	P-DSO-8-6	5 ... 34	> 400	0.35	400
BSP 742T	SP000011136	P-DSO-8-6	5 ... 34	1100	0.4	300
BSP 752R	SP000012796	P-DSO-8-6	6 ... 52	1700	0.2	600
BSP 752T	SP000012797	P-DSO-8-6	6 ... 52	1700	0.2	600
BSP 762T	SP000011148	P-DSO-8-6	5 ... 34	2400	0.1	700
BSP 772T	SP000011152	P-DSO-8-6	5 ... 34	3100	0.06	1200
BTS 452R	SP000012791	P-TO252-5-1	6 ... 52	2200	0.20	600
BTS 452T	SP000012792	P-TO252-5-1	6 ... 52	2200	0.20	600
BTS 462T	SP000012191	P-TO252-5-1	5 ... 34	4400	0.10	1000
BTS 4140N	SP000013791	SOT223	4.9 ... 60	> 200	1	700
BTS 4141D	SP000013944	P-TO252-5-1	12 ... 45	> 700	0.2	1400
BTS 4141N	SP000013942	SOT223	12 ... 45	> 700	0.2	1400
BTS 4142N	SP000013945	SOT223	12 ... 45	>1400	0.2	3000
BTS 4880R	SP000013302	P-DSO-36-12	11 ... 45	>1400	0.2	1100

### Mini PROFET® (for industrial applications)

▼ ISP 452	SP000219823	SOT223	5 ... 34	> 700	0.2	700
▼ ISP 742RI	SP000221229	PG-DSO-8-6	5 ... 34	> 400	0.35	400
▼ ISP 752R	SP000219825	PG-DSO-8-6	6 ... 52	1700	0.2	600
▼ ISP 762T	SP000221228	PG-DSO-8-6	5 ... 34	2400	0.1	700
▼ ISP 772T	SP000219824	PG-DSO-8-6	5 ... 34	3100	0.06	1200

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Data			
			$V_{bb\ op}$	$I_{L-ISO-Norm}$	$R_{ON}$	$I_{L\ (lin)\ min}$
			V	mA	$\Omega$	mA

## Smart High Side Switches

### Mini PROFET® (for industrial applications) (cont'd)

▼ ITS 4141D	SP000221235	P-TO252-5-1	12 ... 45	> 700	0.2	1400
▼ ITS 4141N	SP000219536	SOT223	12 ... 45	> 700	0.2	1400
▼ ITS 4142N	SP000221218	SOT223	12 ... 45	>1400	0.2	3000
▼ ITS 4880R	SP000219527	PG-DSO-36-12	11 ... 45	>1400	0.2	1100

Type	Ordering Code	Package	Data			
			$V_{bb\ (AZ)}$	$R_{ON}$	$I_{L-ISO-Norm}$	$I_{L-MOS-Norm}$
			V	m $\Omega$	A	A

### Dimmer PROFET®

BTS 730	SP000011308	P-DSO-20-9	> 40	65	3.0	20
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Type	Ordering Code	Package	Data		
			$V_{bb\ (AZ)}$	$I_{L-ISO-Norm}$	$R_{ON}$
			V	A	m $\Omega$

### Two Channel PROFET® (for automotive applications)

BTS 5210G	SP000013631	P-DSO-14-9	> 40	3.9	2 × 70
BTS 5210L	SP000013735	P-DSO-12-2	> 40	3.9	2 × 70
BTS 5215L	SP000013737	P-DSO-12-2	> 40	7.4	2 × 45
▼ BTS 5230GS	SP000082241	P-DSO-14-18	> 28	2.1	2 × 140
▼ BTS 5231GS	SP000203741	P-DSO-14-18	> 28	1.8	2 × 140
BTS 5234G	SP000014727	P-DSO-20-9	> 40	3.3	2 × 60
BTS 5234L	SP000014704	P-DSO-12-2	> 40	3.5	2 × 60
BTS 5240G	SP000014567	P-DSO-20-9	> 40	5.9	2 × 25
BTS 5240L	SP000014002	P-DSO-12-2	> 40	6.0	2 × 25
BTS 5241G	SP000014738	P-DSO-20-9	> 40	5.9	2 × 25
BTS 5241L	SP000014643	P-DSO-12-2	> 40	6.0	2 × 25
BTS 611L1	SP000011269	P-TO220-7-3	> 40	2.3	2 × 200
BTS 611L1 E-3128A	SP000011271	P-TO220-7-128	> 40	2.3	2 × 200
▼ BTS 611L1 E-3230	SP000011270	P-TO220-7-230	> 40	2.3	2 × 200
BTS 612N1 E-3128A	SP000011274	P-TO220-7-128	> 40	2.3	2 × 200
BTS 612N1 E-3230	SP000011275	P-TO220-7-230	> 40	2.3	2 × 200
BTS 621L1	SP000011277	P-TO220-7-3	> 40	4.4	2 × 100
BTS 621L1 E-3128A	SP000011281	P-TO220-7-128	> 40	4.4	2 × 100
BTS 621L1 E-3230	SP000011278	P-TO220-7-230	> 40	4.4	2 × 100
BTS 707	SP000011296	P-DSO-20-9	> 65	2.8	2 × 250
BTS 723GW	SP000013173	P-DSO-14-9	> 62	4.2	2 × 50
BTS 726L1	SP000011305	P-DSO-20-9	> 40	4.0	2 × 60
BTS 728L2	SP000011307	P-DSO-20-9	> 40	4.0	2 × 60

SMD = Surface Mounted Device



# Power Semiconductors

Type	Ordering Code	Package	Data		
			$V_{bb(AZ)}$	$I_{L-ISO-Norm}$	$R_{ON}$
			V	A	mΩ

## Smart High Side Switches

### Two Channel PROFET® (for automotive applications) (cont'd)

BTS 736L2	SP000011310	P-DSO-20-9	> 40	4.8	2 × 40
BTS 840S2	SP000011324	P-DSO-20-9	> 40	12.6	2 × 30

### Two Channel PROFET® (for industrial applications)

▼ ITS 612N1	SP000221233	P-TO220-7-3	> 40	2.3	2 × 200
▼ ITS 612N1 E-3230	SP000221234	P-TO220-7-230	> 40	2.3	2 × 200
▼ ITS 621L1	SP000219533	PG-TO220-7-3	> 40	2.3	2 × 200
▼ ITS 621L1 E-3230	SP000221224	P-TO220-7-230	> 40	2.3	2 × 200
▼ ITS 5215L	SP000219826	PG-DSO-12-2	> 40	7.4	2 × 45

### Four Channel PROFET® (for automotive applications)

BTS 711L1	SP000011298	P-DSO-20-9	> 34	1.9	4 × 200
BTS 712N1	SP000011300	P-DSO-20-9	> 40	1.9	4 × 210
BTS 716G	SP000013190	P-DSO-20-9	> 40	2.6	4 × 140
BTS 716GB	SP000014327	P-DSO-20-9	> 40	2.6	4 × 140
BTS 721L1	SP000011301	P-DSO-20-9	> 40	2.9	4 × 100
BTS 724G	SP000013193	P-DSO-20-9	> 40	7.3	4 × 22.5
BTS 737S3	SP000014328	P-DSO-28-16	> 40	5.4	4 × 35
BTS 5434G	SP000014710	P-DSO-28-16	> 40	3.4	4 × 60
BTS 5440G	SP000014185	P-DSO-28-16	> 40	6.2	4 × 25
BTS 5441G	SP000014644	P-DSO-28-16	> 40	5.6	4 × 25
BTS 824R	SP000013628	P-DSO-20-10	> 40	17.0	4 × 90

### Four Channel PROFET® (for industrial applications)

▼ ITS 711L1	SP000219532	PG-DSO-20-9	> 34	1.9	4 × 200
▼ ITS 716G	SP000219534	PG-DSO-20-9	> 40	2.6	4 × 140
▼ ITS 724G	SP000219835	PG-DSO-20-9	> 40	7.3	4 × 22.5

SMD = Surface Mounted Device



# Power Semiconductors

Type	Ordering Code	Package	Description
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## Smart Power Bridges

### Stepper Motor Drivers

TCA 3727	SP000011713	P-DIP-20-3	Stepper motor driver, 2-phase motor, 2 × 1 A / 50 V
TCA 3727G	SP000011714	P-DSO-24-3	
TLE 4726G	SP000011863	P-DSO-24-3	
TLE 4727	SP000011864	P-DIP-20-3	Stepper motor driver, 2-phase motor, 2 × 1 A / 45 V
TLE 4728G	SP000011865	P-DSO-24-3	
TLE 4729G	SP000011867	P-DSO-24-3	Stepper motor driver, 2-phase with low quiescent current, 2 × 1 A / 45 V

### DC Motor Bridges

BTS 7700G	SP000012368	P-DSO-28-16	TrilithIC™, bridge or quad driver, 8 A, status, tape & reel
BTS 7710G	SP000012774	P-DSO-28-16	TrilithIC™, bridge or quad driver, 12 A, status, tape & reel
BTS 7710GP	SP000012778	P-TO263-15-1	TrilithIC™, bridge or quad driver, 12 A, status, PowerPak, tape & reel
BTS 7740G	SP000012371	P-DSO-28-16	TrilithIC™, bridge or quad driver, 8 A, status, short circuit protection; tape & reel
BTS 7741G	SP000013912	P-DSO-28-16	TrilithIC™, bridge or quad driver, 12 A, status, short circuit protection, tape & reel
BTS 7750G	SP000012779	P-DSO-28-16	TrilithIC™, bridge or quad driver, 12 A, status, short circuit protection, tape & reel
BTS 7750GP	SP000012780	P-TO263-15-1	TrilithIC™, bridge or quad driver, 12 A, status, PowerPak, tape & reel
BTS 7751G	SP000014077	P-DSO-28-16	TrilithIC™, bridge or quad driver, 12 A, status, short circuit protection, tape & reel
BTS 7810K	SP000014521	P-TO263-15-1	TrilithIC™, bridge or quad driver, 42 A, status, PowerPak, tape & reel
▼ BTS 7930B	SP000065799	P-TO263-7-6	28 mΩ NovalithIC™, high current PN half bridge driver, 18 A, status, tape & reel
▼ BTS 7960B	SP000014711	P-TO263-7-6	16 mΩ NovalithIC™, high current PN half bridge driver, 43 A, status, tape & reel
▼ BTS 7960P	SP000053907	P-TO220-7-1	16 mΩ NovalithIC™, high current PN half bridge driver, 43 A, status, tube
TLE 4205	SP000011746	P-DIP-18-3	Power bridges for DC-motor control, 1 A / 32 V, tube
TLE 4205G	SP000011747	P-DSO-20-6	Power bridges for DC-motor control, 1 A / 32 V, tape & reel
TLE 4206G	SP000011748	P-DSO-14-4	DC-motor driver for servo driver 1 A / 18 V, tape & reel
TLE 4207G	SP000011750	P-DSO-14-4	Dual half bridge driver, 2 × 1 A / 18 V, tape & reel
TLE 4208G	SP000012143	P-DSO-28-6	Quad half bridge driver, 2 × 1 A / 18 V, tape & reel
TLE 4209A	SP000012194	P-DIP-8-4	DC-motor driver for servo driver 1 A / 18 V, tube
TLE 5205-2	SP000011886	P-TO220-7-11	Power bridges for DC-motor control, 5 A / 40 V, tube
TLE 5205-2S	SP000011887	P-TO220-7-12	
TLE 5205-2G	SP000011890	P-TO263-7-1	Power bridges for DC-motor control, 5 A / 40 V, tape & reel
TLE 5205-2GP	SP000011891	P-DSO-20-12	
TLE 5206-2	SP000011892	P-TO220-7-11	Power bridges for DC-motor control, 5 A / 40 V, tube
TLE 5206-2S	SP000011893	P-TO220-7-22	
TLE 5206-2G	SP000011894	P-TO263-7-1	Power bridges for DC-motor control, 5 A / 40 V, tape & reel
TLE 5206-2GP	SP000011895	P-DSO-20-12	
TLE 6208-3G	SP000012148	P-DSO-14-4	Triple half-bridge driver, 3 × 0.8 A / 32 V, tape & reel
TLE 6208-6G	SP000012975	P-DSO-28-6	Hex half-bridge driver / double six driver, tape & reel
TLE 6209R	SP000013299	P-DSO-20-12	Hex half-bridge driver for throttle control, 7 A, tape & reel

SMD = Surface Mounted Device



# Power Semiconductors

Type	Ordering Code	Package	Description
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## Smart Power Bridges

### DC Motor Bridges

(cont'd)

TLE 6281G	SP000107818	P-DSO-20-10	Half-bridge driver IC for external MOSFETs for very high currents, tape reel
TLE 6282G	SP000081973	P-DSO-20-10	Dual half-bridge driver IC for 4 external MOSFETs for very high currents, tape reel
▼ TLE 6284G	SP000083033	P-DSO-20-10	Half-bridge gate driver IC for 4 MOSFETs, short circuit protection level adjustable, tape reel
TLE 6287GP	SP000014090	P-DSO-36-10	3-phase driver IC for 6 MOSFETs in bridge configuration, tape & reel
TLE 6289GP	SP000014724	P-DSO-36-10	
TLE 7209-2R	SP000014748	P-DSO-20-12	Half-bridge driver for throttle control, 7 A, with SPI and status flag mode, tape & reel

### IGBT Gate Driver ICs (EiceDRIVER™)

▼ 2ED020112F	SP000014669	P-DSO-18-1	Half-bridge IGBT driver IC, gate drive currents of +1A/-2A (EiceDRIVER™)
▼ 2ED020112F	SP000107512	PG-DSO-18-1	Half-bridge IGBT driver IC (1200V), gate drive currents of +1A/-2A (EiceDRIVER™)

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SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Description
<b>Voltage Regulators</b>			
<b>Automotive Linear</b>			
<b>Adj. 1.5 V, 2.6 V, 3.0 V and 3.3 V Standard Regulators</b>			
TLE 4295G V26	SP000012503	SCT595	2.6 V, $I_{out} = 30$ mA, Reset, Power fail, tape & reel
TLE 4295G V30	SP000012502	SCT595	3 V, $I_{out} = 30$ mA, Reset, Power fail, tape & reel
TLE 4295G V33	SP000012501	SCT595	3.3 V, $I_{out} = 30$ mA, Reset, Power fail, tape & reel
TLE 4296G V30	SP000012764	SCT595	3 V, $I_{out} = 30$ mA, Inhibit, tape & reel
TLE 4296G V33	SP000012765	SCT595	3.3 V, $I_{out} = 30$ mA, Inhibit, tape & reel
TLE 4296-2G V33	SP000014332	SCT595	3.3 V, $I_{out} = 30$ mA, Inhibit, reduced quiescent current, tape & reel
TLE 4274D V33	SP000011803	P-TO252-3-1	3.3 V, $I_{out} = 400$ mA, tape & reel
TLE 4274GS V25	SP000011807	SOT223	2.5 V, $I_{out} = 400$ mA, tape & reel
TLE 4274GS V33	SP000011806	SOT223	3.3 V, $I_{out} = 400$ mA, tape & reel
TLE 4276DV	SP000012197	P-TO252-5-1	adjustable voltage, $I_{out} = 400$ mA, Inhibit, tape & reel
TLE 4276GV	SP000011824	P-TO220-5-122	adjustable voltage, $I_{out} = 400$ mA, Inhibit, tape & reel
TLE 4276SV	SP000011831	P-TO220-5-43	adjustable voltage, $I_{out} = 400$ mA, Inhibit, tube
TLE 4276V	SP000011835	P-TO220-5-3	adjustable voltage, $I_{out} = 400$ mA, Inhibit, tube
TLE 4284DV	SP000014339	P-TO252-3-11	adjustable voltage, $I_{out} = 1$ A, short circuit protected, overtemperature protected, tape & reel
▼ TLE 4284D V15	SP000089571	P-TO252-3-1	1.5 V, $I_{out} = 1$ A, short circuit protected, overtemperature protected, tape & reel
▼ TLE 4284D V18	SP000063690	P-TO252-3-1	1.8 V, $I_{out} = 1$ A, short circuit protected, overtemperature protected, tape & reel
▼ TLE 4284D V26	SP000054076	P-TO252-3-1	2.6 V, $I_{out} = 1$ A, short circuit protected, overtemperature protected, tape & reel
TLE 4284D V33	SP000014340	P-TO252-3-1	3.3 V, $I_{out} = 1$ A, short circuit protected, overtemperature protected, tape & reel

## 5 V Standard Regulators ( $\leq 200$ mA output current)

TLE 4285G	SP000011850	SCT595	5 V, $I_{out} = 15$ mA, Power fail, tape & reel
TLE 4286G	SP000011851	SCT595	5 V, $I_{out} = 15$ mA, Inhibit, tape & reel
TLE 4295G V50	SP000012500	SCT595	5 V, $I_{out} = 30$ mA, Reset, Power fail, tape & reel
TLE 4296G V50	SP000012766	SCT595	5 V, $I_{out} = 30$ mA, Inhibit, tape & reel
TLE 4296-2G V50	SP000014333	SCT595	5 V, $I_{out} = 30$ mA, Inhibit, reduced quiescent current, tape & reel
TLE 4264G	SP000011765	SOT223	5 V, $I_{out} = 150$ mA, tape & reel
TLE 4266G	SP000011768	SOT223	5 V, $I_{out} = 150$ mA, Inhibit, tape & reel
TLE 4269G	SP000011784	P-DSO-8-3	
TLE 4269GL	SP000011789	P-DSO-20-17	5 V, $I_{out} = 150$ mA, Reset, early warning, tape & reel
TLE 4269GM	SP000011790	P-DSO-14-8	
TLE 4279G	SP000011840	P-DSO-8-3	5 V, $I_{out} = 150$ mA, Reset, early warning, tape & reel
▼ TLE 4279GM	SP000011845	P-DSO-14-8	
TLE 4278G	SP000011838	P-DSO-14-8	5 V, $I_{out} = 160$ mA, Reset, Watchdog, tape & reel
TLE 4262G	SP000011760	P-DSO-20-6	5 V, $I_{out} = 200$ mA, Reset, Inhibit, tape & reel
TLE 4262GM	SP000012365	P-DSO-14-8	
TLE 4263G	SP000011762	P-DSO-20-6	
TLE 4263GM	SP000012367	P-DSO-14-4	5 V, $I_{out} = 200$ mA, Reset, Inhibit, Watchdog, tape & reel
TLE 4263GS	SP000014278	P-DSO-8-3	
TLE 4268G	SP000011777	P-DSO-20-17	5 V, $I_{out} = 180$ mA, Reset, Watchdog, tape & reel
TLE 4268GS	SP000011781	P-DSO-8-3	

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Description
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## Voltage Regulators

### Automotive Linear

#### 5 V Standard Regulators (> 200 mA output current)

TLE 4287G	SP000011854	P-DSO-14-8	5 V, $I_{out} = 250$ mA, Reset, Inhibit, tape & reel
▼ TLE 4267G	SP000011774	P-TO220-7-4	5 V, $I_{out} = 400$ mA, Reset, Inhibit, tape & reel
TLE 4267GM	SP000012506	P-DSO-14-8	
TLE 4267	SP000012167	P-TO220-7-3	5 V, $I_{out} = 400$ mA, Reset, Inhibit, tube
TLE 4267S	SP000011771	P-TO220-7-230	
TLE 4274 V50	SP000011809	P-TO220-3-1	5 V, $I_{out} = 400$ mA, tube
▼ TLE 4274D V50	SP000011801	P-TO252-3-11	5 V, $I_{out} = 400$ mA, tape & reel
▼ TLE 4274GV	SP000089303	P-TO263-3-1	
TLE 4274G V50	SP000011796	P-TO263-3-1	
TLE 4276D V50	SP000012198	P-TO252-5-1	5 V, $I_{out} = 400$ mA, Inhibit, tape & reel
TLE 4276G V50	SP000011821	P-TO220-5-122	5 V, $I_{out} = 400$ mA, Inhibit, tube
TLE 4276S V50	SP000011829	P-TO220-5-43	
TLE 4275	SP000011814	P-TO220-5-11	5 V, $I_{out} = 450$ mA, Reset, tube
TLE 4275S	SP000011815	P-TO220-5-12	
TLE 4275D	SP000012151	P-TO252-5-1	5 V, $I_{out} = 450$ mA, Reset, tape & reel
TLE 4275G	SP000011818	P-TO263-5-1	
TLE 4276 V50	SP000011832	P-TO220-5-3	5 V, $I_{out} = 400$ mA, Inhibit, tube
TLE 4290D	SP000012762	P-TO252-5-1	5 V, $I_{out} = 450$ mA, Power Good, tape & reel
TLE 4290G	SP000012763	P-TO263-5-1	
TLE 4270	SP000011792	P-TO220-5-11	5 V, $I_{out} = 600$ mA, Reset, tube
TLE 4270S	SP000011793	P-TO220-5-12	
TLE 4270D	SP000012195	P-TO252-5-1	5 V, $I_{out} = 600$ mA, Reset, tape & reel
TLE 4270G	SP000011794	P-TO263-5-1	
TLE 4271-2	SP000013201	P-TO220-7-11	5 V, $I_{out} = 600$ mA, Reset, Inhibit, Watchdog, tube
TLE 4271-2S	SP000013202	P-TO220-7-12	
TLE 4271-2G	SP000013203	P-TO263-7-1	5 V, $I_{out} = 600$ mA, Reset, Inhibit, Watchdog, tape & reel
TLE 4284D V50	SP000017633	P-TO252-3-1	5 V, $I_{out} = 1$ A, short circuit protected, overtemperature protected, tape & reel

#### 8.5 V and 10 V Standard Regulators

TLE 4266GS V10	SP000012431	SOT223	10 V, $I_{out} = 120$ mA, Inhibit, tape & reel
TLE 4274G V10	SP000011798	P-TO263-3-1	10 V, $I_{out} = 400$ mA, tape & reel
TLE 4274G V85	SP000011797	P-TO263-3-1	8.5 V, $I_{out} = 400$ mA, tape & reel
TLE 4274 V10	SP000011811	P-TO220-3-1	10 V, $I_{out} = 400$ mA, Inhibit, tube
TLE 4274 V85	SP000011810	P-TO220-3-1	8.5 V, $I_{out} = 400$ mA, tube
TLE 4276G V10	SP000011823	P-TO220-5-122	10 V, $I_{out} = 400$ mA, Inhibit, tape & reel
TLE 4276 V85	SP000011833	P-TO220-5-3	8.5 V, $I_{out} = 400$ mA, Inhibit, tube
TLE 4276S V85	SP000011830	P-TO220-5-43	
TLE 4276 V10	SP000011834	P-TO220-5-3	10 V, $I_{out} = 400$ mA, Inhibit, tube
TLE 4276G V85	SP000011822	P-TO220-5-122	8.5 V, $I_{out} = 400$ mA, Inhibit, tape & reel

#### 2.6 V, 3.0 V and 3.3 V Ultra Low Quiescent Regulators

TLE 4266-2GS V33	SP000013992	SOT223	3.3 V, $I_{out} = 150$ mA, Inhibit, reduced quiescent current, tape & reel
TLE 4299GM V33	SP000056991	P-DSO-14-8	3.3 V, $I_{out} = 150$ mA, Inhibit, early warning, tape & reel
▼ TLE 4299G V33	SP000056992	P-DSO-8-3	
▼ TLE 7273 V26	SP000067153	P-DSO-14-4	2.6 V, $I_{out} = 200$ mA, Reset, Inhibit, Watchdog, tape & reel
▼ TLE 7273 V33	SP000067154	P-DSO-14-4	3.3 V, $I_{out} = 200$ mA, Reset, Inhibit, Watchdog, tape & reel

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Description
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## Voltage Regulators

### Automotive Linear

#### 5 V Ultra Low Quiescent Current Regulators

▼ TLE 4264-2G	SP000013989	SOT223	5 V, $I_{out} = 150$ mA, tape & reel
TLE 4266-2G	SP000013991	SOT223	5 V, $I_{out} = 150$ mA, Inhibit, tape & reel
TLE 4299G	SP000012770	P-DSO-8-3	5 V, $I_{out} = 150$ mA, Reset, early warning, tape & reel
TLE 4299GM	SP000013145	P-DSO-14-8	5 V, $I_{out} = 150$ mA, Reset, Inhibit, early warning, tape & reel
TLE 7270D	SP000014700	P-TO252-5-1	5 V, $I_{out} = 300$ mA, Reset, tape & reel
TLE 7270G	SP000055309	P-TO263-5-1	5 V, $I_{out} = 300$ mA, Reset, Inhibit, tape & reel
TLE 7272D	SP000055847	P-TO252-5-1	5 V, $I_{out} = 300$ mA, Reset, Inhibit, tape & reel
TLE 7272G	SP000055848	P-TO263-5-1	5 V, $I_{out} = 300$ mA, Reset, Inhibit, Watchdog, tape & reel
▼ TLE 7273 V50	SP000067155	P-DSO-14-4	5 V, $I_{out} = 200$ mA, Reset, Inhibit, Watchdog, tape & reel
TLE 7274D	SP000055849	P-TO252-5-1	5 V, $I_{out} = 300$ mA, tape & reel
TLE 7274G	SP000055850	P-TO263-3-1	5 V, $I_{out} = 300$ mA, Inhibit, tape & reel
TLE 7276D	SP000055851	P-TO252-5-1	5 V, $I_{out} = 300$ mA, Inhibit, tape & reel
TLE 7276G	SP000055852	P-TO263-5-1	5 V, $I_{out} = 300$ mA, Inhibit, tape & reel

### Multiple Regulators

TLE 4470G	SP000011856	P-DSO-20-6	5 V + 5 V, $I_{out} = 180$ mA/350 mA, Reset, early warning, tape & reel
TLE 4470GS	SP000011861	P-DSO-14-4	5 V + adj. voltage, $I_{out} = 180$ mA/350 mA, Reset, early warning, tape & reel
TLE 4471G	SP000013144	P-DSO-20-12	5 V + 5 V + 5 V, 2 tracked outputs 100/50 mA, Reset, Watchdog tape & reel
TLE 4473G V52	SP000014119	P-DSO-12-6	5 V + 2.6 V, $I_{out} = 180$ mA/300 mA, Watchdog, tape & reel
TLE 4473G V53	SP000014118	P-DSO-12-6	5 V + 3.3 V, $I_{out} = 180$ mA/300 mA, Watchdog, tape & reel
TLE 4473G V55	SP000014117	P-DSO-12-4	5 V + 5 V, $I_{out} = 190$ mA/300 mA, Reset, Inhibit, Watchdog, tape & reel
TLE 4476D	SP000012771	P-TO252-5-1	5 V + 3.3 V, $I_{out} = 350$ mA/430 mA, tape & reel
TLE 7469GV52	SP000014191	P-DSO-12-4	5 V + 2.6 V, $I_{out} = 300$ mA/320 mA, Inhibit, Reset, Watchdog, tape & reel
TLE 7469GV53	SP000017740	P-DSO-12-4	5 V + 3.3 V, $I_{out} = 300$ mA/320 mA, Inhibit, Reset, Watchdog, tape & reel

### Voltage Tracker

TLE 4250G	SP000012163	SCT595	adj. voltage, $I_{out} = 50$ mA, Inhibit, tape & reel
TLE 4252D	SP000014642	P-TO252-5-1	adj. voltage, $I_{out} = 250$ mA, Inhibit, tape & reel
TLE 4251D	SP000013042	P-TO252-5-1	adj. voltage, $I_{out} = 400$ mA, Inhibit, tape & reel
TLE 4251G	SP000013761	P-TO263-5-1	adj. voltage, $I_{out} = 400$ mA, Inhibit, tape & reel

### LED Driver ICs

TLE 4240G	SP000013618	SCT595	Lowdrop LED driver, 60 mA current output, tape & reel
TLE 4241GM	SP000014624	P-DSO-8-9	Lowdrop LED driver, with adjustable current output, tape & reel
TLE 4242G	SP000014456	P-TO263-7-1	Lowdrop LED driver, with adjustable current output up to 500 mA, tape & reel

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Description
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## Voltage Regulators

### Industrial Linear

TLE 4305G	SP000011855	P-DSO-8-1	High precision bipolar regulator, breakdown voltage up to 45 V, tape & reel
TLE 4307D V33	SP000012829	P-TO252-5-1	Power charge pump and low drop voltage regulator, 3.3 V, tape & reel
TLE 4307D V38	SP000012828	P-TO252-5-1	Power charge pump and low drop voltage regulator, 3.8 V, tape & reel
TLE 4484G	SP000012507	SOT223	5 / 15 V, Dual regulator, tape & reel
▼ IFX 1117GS	SP000014584	SOT223	5 V adjustable, $I_{out} = 1.0$ A, short circuit protection, tape & reel
▼ IFX 1117GS V33	SP000014585	SOT223	3.3 V, $I_{out} = 1.0$ A, short circuit protection, tape & reel

### DC/DC Converter

TLE 6361G	SP000013297	P-DSO-36-12	32-bit $\mu$ C power supply, Buck converter, Reset, Watchdog, tape & reel
TLE 6363G	SP000014251	P-DSO-14-2	Multifunctional voltage regulator and watchdog, tape & reel
TLE 6365G	SP000013455	P-DSO-8-3	Step-down voltage regulator with reset, input voltage range 8 V to 40 V, tape & reel
▼ TLE 6368G1	SP000015046	P-DSO-36-12	32-bit $\mu$ C power supply, Buck converter, Reset, Watchdog, tape & reel
TLE 6368R	SP000014666	P-DSO-36-12	
TLE 6389GV	SP000013787	P-DSO-14-2	Buck converter with external P-channel MOSFET, adjustable output voltage, tape & reel
TLE 6389G 50	SP000015002	P-DSO-14-2	Buck converter with external P-channel MOSFET, tape & reel
TLE 6389G 50-1	SP000015001	P-DSO-14-2	Buck converter with external P-channel MOSFET, 5 V, tape & reel

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SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Description
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## Transceivers

### System Basis Chips

TLE 6262G	SP000013837	P-DSO-28-6	System base chip (SBC) CAN-LDO with relay drivers, tape & reel
▼ TLE 6263G	SP000075505	P-DSO-28-6	System base chip (SBC) with fault tolerant CAN-transceiver, 5-V voltage regulator, wake-up inputs, Reset generator, 8-bit SPI, tape & reel
TLE 6285G	SP000065800	P-DSO-16-4	Single wire LIN-transceiver + system regulator + reset generator adjustable reset threshold, tape & reel
TLE 6286G	SP000065801	P-DSO-16-4	Single wire LIN-transceiver + system regulator, tape & reel

### Stand-alone Transceivers

TLE 6250G	SP000012832	P-DSO-8-3	High speed CAN-transceiver according to ISO 11898, tape & reel
▼ TLE 6250PG	SP000055308	PG-DSO-8-3	
TLE 6250G V33	SP000013959	P-DSO-8-3	High speed CAN-transceiver according to ISO 11898, for 3.3 V microcontroller
▼ TLE 6251DS	SP000069399	P-DSO-8-3	High speed CAN-transceiver with bus wake-up, compatible to 3.3 V and 5 V logic input levels, tape & reel
TLE 6251G	SP000082094	P-DSO-14-13	High speed CAN-transceiver with bus wake-up and bus failure detection, tape & reel
TLE 6254-3G	SP000014156	P-DSO-14-13	Low speed fault tolerant CAN-transceiver according ISO 11898-3, tape & reel
TLE 6255G	SP000012141	P-DSO-14-2	Single wire CAN-transceiver, tape & reel
TLE 6258-2G	SP000014969	P-DSO-8-3	Single wire LIN-transceiver, low speed, tape & reel
▼ TLE 6259-2G	SP000014214	P-DSO-8-3	Single wire LIN-transceiver, suitable for LIN protocol, tape & reel
TLE 6266G	SP000013996	P-DSO-28-6	Fault tolerant differential CAN-transceiver with watchdog (KORMORAN II), tape & reel
▼ TLE 7259G	SP000017461	P-DSO-8-3	Enhanced LIN-transceiver with sleep mode/inhibit output, compatible to 3.3 V and 5 V logic input levels, tape & reel

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SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Description
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## Specific Automotive ICs

### Application Specific Standard Products for Restraint Systems

▼ TLE 6710Q	SP000013708	P-MQFP-64-1	Power supply communication four squib driver airbag system ICs, tape & reel
TLE 6711G	SP000012787	P-DSO-14-3	Airbag power supply ICs, tape & reel
▼ TLE 6712G	SP000013710	P-DSO-24-10	Two squib airbag firing ICs, tape & reel
▼ TLE 6714G	SP000013709	P-DSO-28-1	Quad squib airbag firing ICs, tape & reel
▼ TLE 7719T	SP000014172	P-TSSOP-28-1	Airbag satellite receiver ICs (4-channel), tape & reel
▼ TLE 7719T	SP000228426	PG-TSSOP-28-1	Airbag satellite receiver ICs (4-channel), tape & reel

### Application Specific Standard Products for Vehicle Stability - Braking (ABS/ESP)

TLE 6210G B2	SP000013645	P-DSO-20-12	ABS/ASR system ICs, 5 V, 800 mA linear regulator, lamp output, tape & reel
▼ TLE 6211G-C1	SP000013647	P-DSO-20-12	ABS/ASR system ICs, 5 V, 800 mA linear regulator, inverted lamp output, tape & reel

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SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Description
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## DC/DC Control ICs

### CoreControl™

TDA 21101G	SP000013698	P-DSO-8-3	High speed single driver with bootstrapping for dual power MOSFETs, tape & reel
▼ TDA 21101G	SP000200320	PG-DSO-8-3	High speed single driver with bootstrapping for dual power MOSFETs, tape & reel
TDA 21107	SP000015138	P-DSO-8-3	High speed single driver for dual power MOSFETs, power-on OVP protection, tape & reel
TDA 21106	SP000063695	P-DSO-8-3	High speed single driver with bootstrapping for dual power MOSFETs, tape & reel
TDA 21102	SP000014699	P-DSO-14-3	High speed driver with bootstrapping for dual power MOSFETs (dual Gate Driver), tape & reel
TDA 21103	SP000015139	P-DSO-14-3	High speed driver with bootstrapping for dual power MOSFETs (dual Gate Driver), power-on OVP protection, tape & reel
TDA 21201-B7	SP000013685	P-TO263-7-2	Integrated switch (MOSFET driver and MOSFETs), tape & reel
TDA 21201-P7	SP000014081	P-TO220-7-3	Integrated switch (MOSFET driver and MOSFETs), tube
TDA 21201-S7	SP000014082	P-TO220-7-230	
TDA 21301	SP000013699	P-TSSOP-28	Multi-phase PWM controller for CPU power supply, tape & reel

### Smart Lighting Control ICs

▼ ICB 1FL01G	SP000075625	PG-DSO-18-1	Smart ballast control IC for fluorescent lamp, tape & reel
▼ ICB 1FL02G	SP000204703	PG-DSO-18-1	PFC, ballast control and half-bridge driver in one IC, tape & reel



SMD = Surface Mounted Device



# Power Semiconductors

Type	Ordering Code	Package	Description
<b>Power Control ICs</b>			
<b>PWM Control ICs for SMPS</b>			
IDA 4916GG	SP000011736	P-DSO-24-1	Off-line PWM (Pulse Width Modulation) controller with very stable oscillator for high performance converters, tape & reel
▼ TDA 4916GG	SP000087991	P-DSO-24-1	Off-line PWM (Pulse Width Modulation) controller with very stable oscillator for high performance converters, tape & reel
ICE 2AS01	SP000013764	P-DIP-8-4	Off-line PWM (Pulse Width Modulation) control ICs for SMPS (100 kHz fixed), tube
ICE 2AS01G	SP000013765	P-DSO-8-3	Off-line PWM (Pulse Width Modulation) control ICs for SMPS (100 kHz fixed), tape & reel
ICE 3AS02	SP000015084	PG-DIP-8-6	Off-line PWM (Pulse Width Modulation) control ICs for SMPS (100 kHz fixed) with start up cell, tube
▼ ICE 3AS02G	SP000101150	PG-DSO-8-3	Off-line PWM (Pulse Width Modulation) control ICs for SMPS (100 kHz fixed) with start up cell, tape & reel
ICE 2BS01	SP000013766	P-DIP-8-4	Off-line PWM (Pulse Width Modulation) control ICs for SMPS (67 kHz fixed), tube
ICE 2BS01G	SP000013767	P-DSO-8-3	Off-line PWM (Pulse Width Modulation) control ICs for SMPS (67 kHz fixed), tape & reel
ICE 3BS02	SP000014966	PG-DIP-8-6	Off-line PWM (Pulse Width Modulation) control ICs for SMPS (67 kHz fixed) with start up cell, tube
▼ ICE 3BS02G	SP000101151	PG-DSO-8-8	Off-line PWM (Pulse Width Modulation) control ICs for SMPS (67 kHz fixed) with start up cell, tape & reel
ICE 3BS02L	SP000015117	P-DIP-8-6	Off-line PWM (Pulse Width Modulation) control ICs for SMPS (67 kHz fixed) with start up cell, latch mode, tube
ICE 3DS01L	SP000014265	P-DIP-8-6	Off-line PWM (Pulse Width Modulation) control ICs for SMPS (110 kHz fixed) with start up cell, latch mode, tube
ICE 3DS01LG	SP000014264	P-DSO-8-8	Off-line PWM (Pulse Width Modulation) control ICs for SMPS (110 kHz fixed) with start up cell, latch mode, tape & reel
ICE 1QS01	SP000014266	P-DIP-8-4	Controller for quasi-resonant SMPS supporting low power standby and power factor correction, tube
ICE 1QS01G	SP000014505	P-DSO-8-3	Controller for quasi-resonant SMPS supporting low power standby and power factor correction, tape & reel
▼ ICE 1QS01G	SP000081003	PG-DSO-8-3	Controller for quasi-resonant SMPS supporting low power standby and power factor correction, tape & reel
TDA 16846	SP000011731	P-DIP-14-3	Off-line PWM-controller for quasi-resonant, synchronized or fixed frequency applications, tube
▼ TDA 16846 G GEG	SP000012854	P-DSO-14-3	Off-line PWM-controller for quasi-resonant, synchronized or fixed frequency applications, tape & reel
▼ TDA 16846 G GEG	SP000081009	PGDSO-14-3	Off-line PWM-controller for quasi-resonant, synchronized or fixed frequency applications, suited for TV-, VCR-sets, SAT receivers and other sets for consumer electronics, tube
TDA 16846-2	SP000013854	P-DIP-14-3	Off-line PWM-controller for quasi-resonant, synchronized or fixed frequency applications, suited for TV-, VCR-sets, SAT receivers and other sets for consumer electronics, tube
▼ TDA 16846-2G GEG	SP000081008	PG-DSO-14-3	Off-line PWM-controller for quasi-resonant, synchronized or fixed frequency applications, suited for TV-, VCR-sets, SAT receivers and other sets for consumer electronics, tape & reel
▼ TDA 16847	SP000011732	P-DIP-14-3	Off-line PWM-controller for quasi-resonant, synchronized or fixed frequency applications, temporary high power circuit, tape & reel
▼ TDA 16847-2	SP000013856	P-DIP-14-3	Off-line PWM-controller for quasi-resonant, synchronized or fixed frequency applications, suited for TV-, VCR-sets, SAT receivers and other sets for consumer electronics, temporary high power circuit, tube
TDA 16888	SP000011721	P-DIP-20-5	Power combi (PWM + PFC) control IC for SMPS, tube
TDA 16888 G	SP000011722	P-DSO-20-1	
▼ TDA 16888 G	SP000081318	PG-DSO-20-1	Power combi (PWM + PFC) control IC for SMPS, tape & reel
▼ TDA 16888 G GEG	SP000011723	P-DSO-20-1	
▼ TDA 16888 G GEG	SP000087990	PG-DSO-20-1	Power combi (PWM + PFC) control IC for SMPS, tape & reel
TDA 4605-2	SP000011728	P-DIP-8-1	Off-line quasi-resonant PWM controller, tube
TDA 4605-3	SP000011729	P-DIP-8-1	Off-line quasi-resonant PWM controller with enhanced gate driver, tube

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Description
<b>Power Control ICs</b>			
<b>Power Factor Controllers</b>			
TDA 4862	SP000011734	P-DIP-8-1	Power factor correction control ICs for SMPS, tube
TDA 4862G GEG	SP000011735	P-DSO-8-1	Power factor correction control ICs for SMPS, tape & reel
▼ TDA 4862G GEG	SP000080989	P-DSO-8-1	
TDA 4863	SP000013654	P-DIP-8-4	Power factor controller IC for high power factor and low THD (Boost controller), tube
TDA 4863G	SP000013655	P-DSO-8-3	Power factor controller IC for high power factor and low THD (Boost controller), tape & reel
▼ TDA 4863G	SP000080991	PG-DSO-8-3	
TDA 4863-2	SP000014792	P-DIP-8-4	Power factor controller IC for high power factor and low THD (Boost controller), a big MOS transistor can be driven, tube
TDA 4863-2G	SP000014793	P-DSO-8-3	Power factor controller IC for high power factor and low THD (Boost controller), a big MOS transistor can be driven, tape & reel
▼ TDA 4863-2G	SP000081016	PG-DSO-8-3	
ICE 1PCS01	SP000014681	P-DIP-8-4	Power Factor Controller (PFC) in Continuous Conduction Mode (CCM), tube
ICE 1PCS01	SP000014680	P-DSO-8-3	Power Factor Controller (PFC) in Continuous Conduction Mode (CCM), tape & reel
▼ ICE 1PCS01G	SP000081001	PG-DSO-8-3	
▼ ICE 1PCS02	SP000056162	PG-DIP-8-4	Standalone Power Factor Correction (PFC) controller in Continuous Conduction Mode (CCM) with input brown-out protection, tube
▼ ICE 1PCS02G	SP000056164	PG-DSO-8-3	Standalone Power Factor Correction (PFC) controller in Continuous Conduction Mode (CCM) with input brown-out protection, tape & reel
TDA 21801	SP000015019	PG-DSO-8-3	Fan speed controller IC for SMPS, tape & reel



SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Description
<b>Power Control ICs</b>			
<b>CoolSET™ F1 Family</b>			
TDA 16822	SP000012897	P-DIP-8-6	Integrated PWM control IC + CoolMOS™ power MOSFET in multi-chip technology (650 V, 20 W), tube

Type	Ordering Code	Package	$V_{break}$ V	$P_{out}$ W	$I_{peak}$ A	$f_{op}$ kHz
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## Off-Line SMPS Current Mode Controller with Integrated CoolMOS™ Power MOSFET CoolSET™ F2 Family

ICE 2A0565	SP000014233	P-DIP-8-6	650	13	0.5	100
ICE 2A0565G	SP000015061	P-DSO-16/12	650	13	0.5	100
ICE 2A0565Z	SP000014235	P-DIP-7-1	650	12	0.5	100
ICE 2A165	SP000013769	P-DIP-8-6	650	18	1	100
ICE 2A180Z	SP000014236	P-DIP-7-1	800	18	1	100
ICE 2A265	SP000013503	P-DIP-8-6	650	32	2	100
ICE 2A280Z	SP000014237	P-DIP-7-1	800	31	2	100
ICE 2A365	SP000013504	P-DIP-8-6	650	45	3	100
▼ ICE 2A380P2	SP000089417	P-TO220-6-47	800	62	3	100
ICE 2A765I	SP000014565	P-TO220-6-46	650	130	7	100
ICE 2A765P	SP000013794	P-TO220-6-47	650	130	7	100
ICE 2A765P2	SP000014566	P-TO220-6-47	650	130	7	100
ICE 2B165	SP000013997	P-DIP-8-6	650	18	1	67
ICE 2B265	SP000013998	P-DIP-8-6	650	32	2	67
ICE 2B365	SP000013999	P-DIP-8-6	650	45	3	67
ICE 2B0565	SP000014234	P-DIP-8-6	650	45	0.5	67
ICE 2B765I	SP000014702	P-TO220-6-46	650	130	7	67
ICE 2B765P	SP000013768	P-TO220-6-47	650	130	7	67
ICE 2B765P2	SP000014701	P-TO220-6-47	650	130	7	67

## Off-Line SMPS Current Mode Controller with Integrated CoolMOS™ Power MOSFET CoolSET™ F3 Family

ICE 3A0365	SP000015072	PG-DIP-8-6	650	10	0.3	100
ICE 3A0565	SP000015073	P-DIP-8-6	650	12	0.5	100
ICE 3A0565Z	SP000017044	P-DIP-7-1	650	12	0.5	100
ICE 3A1065	SP000015074	P-DIP-8-6	650	16	1.0	100
ICE 3A1565	SP000015083	P-DIP-8-6	650	20	1.5	100
ICE 3A2065	SP000015082	PG-DIP-8-6	650	28	2.0	100
ICE 3A2065I	SP000016985	P-TO220-6-46	650	28	2.0	100
ICE 3A2065P	SP000016984	P-TO220-6-47	650	28	2.0	100
ICE 3A2065Z	SP000017045	P-DIP-7-1	650	28	2.0	100
ICE 3A2565	SP000015075	PG-DIP-8-6	650	33	2.5	100

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	$V_{break}$	$P_{out}$	$I_{peak}$	$f_{op}$
			V	W	A	kHz

## Power Control ICs

### Off-Line SMPS Current Mode Controller with Integrated CoolMOS™ Power MOSFET CoolSET™ F3 Family (cont'd)

ICE 3A0365I	SP000016983	P-TO220-6-46	650	62	0.3	100
ICE 3A0365P	SP000016982	P-TO220-6-47	650	62	0.3	100
ICE 3A3565I	SP000016981	P-TO220-6-46	650	83	3.5	100
ICE 3A3565P	SP000016980	P-TO220-6-47	650	83	3.5	100
ICE 3A5065I	SP000016979	P-TO220-6-46	650	105	5.0	100
ICE 3A5065P	SP000016978	P-TO220-6-47	650	105	5.0	100
ICE 3A5565I	SP000016977	P-TO220-6-46	650	120	5.5	100
ICE 3A5565P	SP000016976	P-TO220-6-47	650	120	5.5	100
ICE 3B0365	SP000014968	P-DIP-8-6	650	10	0.3	67
ICE 3B0565	SP000014967	P-DIP-8-6	650	12	0.5	67
ICE 3B1065	SP000015076	P-DIP-8-6	650	16	1.0	67
ICE 3B1565	SP000015081	P-DIP-8-6	650	20	1.5	67
ICE 3B2065	SP000015080	P-DIP-8-6	650	28	2.0	67
ICE 3B2065I	SP000016808	P-TO220-6-46	650	50	2.0	67
ICE 3B2065P	SP000016809	P-TO220-6-47	650	50	2.0	67
ICE 3B2565	SP000015077	P-DIP-8-6	650	33	2.5	67
ICE 3B3065I	SP000016810	P-TO220-6-46	650	62	3.0	67
ICE 3B3065P	SP000016811	P-TO220-6-47	650	62	3.0	67
ICE 3B3565I	SP000016812	P-TO220-6-46	650	83	3.5	67
ICE 3B3565P	SP000016813	P-TO220-6-47	650	83	3.5	67
ICE 3B5065I	SP000016814	P-TO220-6-46	650	105	5.0	67
ICE 3B5065P	SP000016815	P-TO220-6-47	650	105	5.0	67
ICE 3B5565I	SP000016816	P-TO220-6-46	650	120	5.0	67
ICE 3B5565P	SP000016817	P-TO220-6-47	650	120	5.0	67

### Off-Line SMPS Current Mode Controller with Integrated CoolMOS™ Power MOSFET CoolSET™ F3 Family (latched-off mode)

▼ ICE 3A1065L	SP000098668	P-DIP-8-6	650	16	1.0	100
▼ ICE 3A1565L	SP000098669	P-DIP-8-6	650	20	1.5	100
▼ ICE 3B0365L	SP000016614	P-DIP-8-6	650	10	0.3	67

### Off-Line SMPS Current Mode Controller with Integrated CoolMOS™ Power MOSFET CoolSET™ F3 Family (Jitter mode)

▼ ICE 3B1565J	SP000098876	PG-DIP-8-6	650	20	1.5	67
▼ ICE 3B0365J	SP000064720	PG-DIP-8-6	650	10	0.3	67
▼ ICE 3B0365JG	SP000078899	P-DSO-16/12	650	10	0.3	67
▼ ICE 3B0565J	SP000064685	PG-DIP-8-6	650	12	0.5	67
▼ ICE 3B0565JG	SP000077217	P-DSO-16/12	650	12	0.5	67

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Package	Description
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## Function and Industrial ICs

### Proximity Switches

TCA 305G	SP000011709	P-DSO-14-1	ICs for inductive proximity switches, tube
▼ TCA 305G	SP000080985	PG-DSO-14-1	
▼ TCA 305G GEG	SP000011710	P-DSO-14-1	ICs for inductive proximity switches, tape & reel
▼ TCA 305G GEG	SP000080986	PG-DSO-14-1	
▼ TCA 355G	SP000080987	PG-DSO-8-1	ICs for inductive proximity switches, tube
TCA 355G GEG	SP000011712	P-DSO-8-1	ICs for inductive proximity switches, tape & reel
▼ TCA 355G GEG	SP000080988	PG-DSO-8-1	
TCA 505BG	SP000011717	P-DSO-16-1	ICs for inductive proximity switches with short-circuit protection, tube
▼ TCA 505BG GEG	SP000011718	P-DSO-16-1	ICs for inductive proximity switches with short-circuit protection, tape & reel
▼ TCA 505BG GEG	SP000105379	PG-DSO-16-1	

### Power Driver ICs

FZL 4146G	SP000011402	P-DSO-20-7	Short-circuit signaling, four driver circuits for driving power transistors, turn-ON threshold setting from 1.5 to 7 V
▼ FZL 4146G	SP000087989	PG-DSO-20-7	

### Window Discriminator

TCA 965B	SP000011720	P-DIP-14-1	Window discriminator, tube
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### Phase Control

TCA 785	SP000011719	P-DIP-16-1	Phase control, tube
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### Audible Signal ICs

SAE 0800	SP000011614	P-DIP-8-1	Programmable single-, dual- and triple-tone gong, tube
SAE 0800G	SP000011615	P-DSO-8-1	
▼ SAE 0800G	SP000080996	PG-DSO-8-1	
SAE 0800G GEG	SP000011616	P-DSO-8-1	Programmable single-, dual- and triple-tone gong, tape & reel
▼ SAE 0800G GEG	SP000080995	PG-DSO-8-1	

SMD = Surface Mounted Device

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## Silicon Discrete Components

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# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
			$V_R$	$I_F$	$V_F$	at	$I_F$
			V	mA	V		mA

## AF Diodes

### Switching Diodes (8 mm Tape)

BAL 74	3k*	SP000014992	SOT23	50	250	$\leq 1.0$	100
BAL 99	3k*	SP000010159	SOT23	70	250	$\leq 1.25$	150
BAL 99	10k*	SP000010161	SOT23	70	250	$\leq 1.25$	150
BAR 74	3k*	SP000010202	SOT23	50	250	$\leq 1.0$	100
BAS 16	3k*	SP000010203	SOT23	75	250	$\leq 1.25$	150
BAS 16	10k*	SP000010201	SOT23	75	250	$\leq 1.25$	150
▼ BAS 16	9x10k*	SP000223927	SOT23	75	250	$\leq 1.25$	150
▼ BAS 16	10x3k*	SP000223866	SOT23	75	250	$\leq 1.25$	150
BAS 16-02L	15k*	SP000013548	TSLP-2-1	75	250	$\leq 1.25$	150
■ BAS 16-02V	3k*	SP000014911	SC79	75	250	$\leq 1.25$	150
BAS 16 W	3k*	SP000010214	SOT323	75	250	$\leq 1.25$	150
BAS 16 W	10k*	SP000010215	SOT323	75	250	$\leq 1.25$	150
BAS 16-02W	3k*	SP000010212	SCD80	75	200	$\leq 1.25$	150
■ BAS 16-03W	3k*	SP000010213	SOD323	75	250	$\leq 1.25$	150
BAS 16-07L4 (Dual)	3k*	SP000013972	TSLP-4-4	75	250	$\leq 1.25$	150
BAS 21	3k*	SP000010217	SOT23	200	250	$\leq 1.25$	200
BAS 21	10k*	SP000010219	SOT23	200	250	$\leq 1.25$	200
BAS 21-03W	3k*	SP000012522	SOD323	200	250	$\leq 1.25$	200
▼ BAS 21-03W	10k*	SP000082470	SOD323	200	250	$\leq 1.25$	200
BAS 116	3k*	SP000010194	SOT23	75	250	$\leq 1.25$	150
BGX 50 A (Bridge)	3k*	SP000011092	SOT143	50	140	$\leq 2.6$	100
■ SMBD 914	3k*	SP000010209	SOT23	70	250	$\leq 1.0$	100
▼ MMBD 914	3k*	SP000010207	SOT23	70	250	$\leq 1.0$	100
▼ MMBD 914	10k*	SP000010208	SOT23	70	250	$\leq 1.0$	100

### Switching Diodes (12 mm Tape)

BAW 78 D	1k*	SP000010370	SOT89	400	1000	$\leq 2.00$	2000
BAW 79 D (Dual)	1k*	SP000014594	SOT89	400	1000	$\leq 2.00$	2000

\* Order unit

SMD = Surface Mounted Device

# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
			$V_R$	$I_F$	$V_F$	at	$I_F$
			V	mA	V		mA

## AF Diodes

### Switching Diodes Array

BAS 16S (Triple)	3k*	SP000010200	SOT363	80	200	≤ 1.25	150
BAS 16U (Triple)	3k*	SP000012608	SC74	80	200	≤ 1.25	150
BAS 21U (Triple)	3k*	SP000012610	SC74	200	250	≤ 1.25	200
BAS 28 (Dual)	3k*	SP000010225	SOT143	80	200	≤ 1.25	150
BAS 28W (Dual)	3k*	SP000010230	SOT343	80	200	≤ 1.25	150
■ BAV 70 (Dual)	3k*	SP000014923	SOT23	80	200	≤ 1.25	150
BAV 70 (Dual)	10k*	SP000014924	SOT23	80	200	≤ 1.25	150
▼ BAV 70 (Dual)	9x10k*	SP000223928	SOT23	80	200	≤ 1.25	150
▼ BAV 70 (Dual)	10x3k*	SP000223868	SOT23	80	200	≤ 1.25	150
BAV 70S (Quad)	3k*	SP000010338	SOT363	80	200	≤ 1.25	150
■ BAV 70T	3k*	SP000013068	SC75	80	200	≤ 1.25	150
BAV 70U (Quad)	3k*	SP000012931	SC74	80	200	≤ 1.25	150
BAV 70W (Dual)	3k*	SP000014989	SOT323	80	200	≤ 1.25	150
BAV 70W (Dual)	10k*	SP000014990	SOT323	80	200	≤ 1.25	150
■ BAV 99 (Dual)	3k*	SP000010350	SOT23	80	200	≤ 1.25	150
▼ BAV 99 (Dual)	3k*	SP000095919	SOT23	80	200	≤ 1.25	150
BAV 99 (Dual)	10k*	SP000010342	SOT23	80	200	≤ 1.25	150
▼ BAV 99 (Dual)	9x10k*	SP000223929	SOT23	80	200	≤ 1.25	150
▼ BAV 99 (Dual)	10x3k*	SP000223871	SOT23	80	200	≤ 1.25	150
BAV 99S (Quad)	3k*	SP000010356	SOT363	80	200	≤ 1.25	150
BAV 99S (Quad)	10k*	SP000010357	SOT363	80	200	≤ 1.25	150
BAV 99T	3k*	SP000012342	SC75	80	200	≤ 1.25	150
BAV 99T	10k*	SP000012343	SC75	80	200	≤ 1.25	150
BAV 99U (Quad)	3k*	SP000012613	SC74	80	200	≤ 1.25	150
BAV 99W (Dual)	3k*	SP000010340	SOT323	80	200	≤ 1.25	150
BAV 99W (Dual)	10k*	SP000010341	SOT323	80	200	≤ 1.25	150
▼ BAV 99W (Dual)	10x3k*	SP000056356	SOT323	80	200	≤ 1.25	150
BAV 170 (Dual)	3k*	SP000010325	SOT23	80	200	≤ 1.25	150
BAV 170 (Dual)	10k*	SP000010332	SOT23	80	200	≤ 1.25	150
■ BAV 199 (Dual)	3k*	SP000010326	SOT23	80	200	≤ 1.25	150
▼ BAV 199 (Dual)	3k*	SP000056360	SOT23	80	200	≤ 1.25	150
BAV 199 (Dual)	10k*	SP000010330	SOT23	80	200	≤ 1.25	150
■ BAW 56 (Dual)	3k*	SP000014929	SOT23	80	200	≤ 1.25	150
BAW 56 (Dual)	10k*	SP000014931	SOT23	80	200	≤ 1.25	150
▼ BAW 56	9x10k*	SP000223931	SOT23	80	200	≤ 1.25	150
▼ BAW 56	10x3k*	SP000223877	SOT23	80	200	≤ 1.25	150
BAW 56S (Quad)	3k*	SP000014908	SOT363	80	200	≤ 1.25	150
▼ BAW 56S (Quad)	10x3k*	SP000056359	SOT363	80	200	≤ 1.25	150
■ BAW 56T (Dual)	3k*	SP000014912	SC75	80	200	≤ 1.25	150
BAW 56U (Quad)	3k*	SP000014993	SC74	80	200	≤ 1.25	150
BAW 56W (Dual)	3k*	SP000014991	SOT323	80	200	≤ 1.25	150

\* Order unit

SMD = Surface Mounted Device



# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
			$V_R$	$I_F$	$V_F$	at	$I_F$
			V	mA	V		mA

## AF Diodes

### Switching Diodes Array (cont'd)

BAW 101 (Dual)	3k*	SP000010363	SOT143	300	250	$\leq 1.3$	100
BAW 101 (Dual)	10k*	SP000010364	SOT143	300	250	$\leq 1.3$	100
BAW 156 (Dual)	3k*	SP000010327	SOT23	80	20	$\leq 1.25$	150
▼ BAW 222 (Dual)	3k*	SP000015125	SC75	80	200	$\leq 1.25$	150
SMBD 7000 (Dual)	3k*	SP000014938	SOT23	100	200	$\leq 1.1$	100
▼ MMBD 7000 (Dual)	3k*	SP000014935	SOT23	100	200	$\leq 1.1$	100
SMBD 7000 (Dual)	10k*	SP000014937	SOT23	100	200	$\leq 1.1$	100

### Schottky Diodes (8 mm Tape)

BAS 40	3k*	SP000010235	SOT23	40	120	$\leq 0.380$	1
BAS 40	10k*	SP000010233	SOT23	40	120	$\leq 0.380$	1
BAS 40-02L	15k*	SP000013549	TSLP-2-1	40	120	$\leq 0.380$	40
BAS 40-04 (Dual)	3k*	SP000010241	SOT23	40	120	$\leq 0.380$	1
BAS 40-04 (Dual)	10k*	SP000010243	SOT23	40	120	$\leq 0.380$	1
BAS 40-05 (Dual)	3k*	SP000010240	SOT23	40	120	$\leq 0.380$	1
BAS 40-05 (Dual)	10k*	SP000010242	SOT23	40	120	$\leq 0.380$	1
BAS 40-05W (Dual)	3k*	SP000014595	SOT323	40	120	$\leq 0.380$	1
BAS 40-06 (Dual)	3k*	SP000010239	SOT23	40	120	$\leq 0.380$	1
BAS 40-06 (Dual)	10k*	SP000010244	SOT23	40	120	$\leq 0.380$	1
BAS 40-06W (Dual)	3k*	SP000014597	SOT323	40	120	$\leq 0.380$	1
BAS 40-07 (Dual)	3k*	SP000010245	SOT143	40	120	$\leq 0.380$	1
▼ BAS 40-07 (Dual)	10x3k*	SP000056361	SOT143	40	120	$\leq 0.380$	1
BAS 40-07W (Dual)	3k*	SP000010246	SOT343	40	120	0.310	1
BAS 52-02V	3k*	SP000013936	SC79	45	750	$\leq 0.400$	200
▼ BAS 52-02V	8k*	SP000104721	SC79	45	750	$\leq 0.400$	200
BAS 70	3k*	SP000010247	SOT23	70	70	$\leq 0.410$	1
BAS 70	10k*	SP000010248	SOT23	70	70	$\leq 0.410$	1
BAS 70-02L	15k*	SP000013550	TSLP-2-1	70	70	$\leq 0.420$	15
BAS 70-02W (Dual)	3k*	SP000012521	SCD80	70	70	$\leq 0.410$	1
BAS 70-04 (Dual)	3k*	SP000010253	SOT23	70	70	$\leq 0.410$	1
BAS 70-04 (Dual)	10k*	SP000010256	SOT23	70	70	$\leq 0.410$	1
BAS 70-04S (Quad)	3k*	SP000014598	SOT363	70	70	0.410	1
BAS 70-04W (Dual)	3k*	SP000010249	SOT323	70	70	0.410	1
BAS 70-05 (Dual)	3k*	SP000010252	SOT23	70	70	0.410	1
▼ BAS 70-05 (Dual)	10k*	SP000078827	SOT23	70	70	0.410	1
BAS 70-05W (Dual)	3k*	SP000010250	SOT323	70	70	0.410	1
BAS 70-06 (Dual)	3k*	SP000010254	SOT23	70	70	0.410	1
BAS 70-06 (Dual)	10k*	SP000010260	SOT23	70	70	0.410	1
BAS 70-06W (Dual)	3k*	SP000010251	SOT323	70	70	0.410	1
BAS 70-07 (Dual)	3k*	SP000010266	SOT143	70	70	0.410	1
BAS 70-07 (Dual)	10k*	SP000010269	SOT143	70	70	0.410	1
■ BAS 70-07W (Dual)	3k*	SP000010270	SOT343	70	70	0.380	1
BAS 140W	3k*	SP000010199	SOD323	40	120	$\leq 0.380$	1
BAS 170W	3k*	SP000010216	SOD323	70	70	$\leq 0.410$	1

\* Order unit

SMD = Surface Mounted Device

# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
			$V_R$	$I_F$	$V_F$	at	$I_F$
			V	mA	V		mA

## AF Diodes

### Schottky Diodes (8 mm Tape) (cont'd)

▼ BAS 3005B-02V	3k*	SP000065626	SC79	30	500	≤ 0.360	1
▼ BAS 3010A-03W	3k*	SP000068629	SOD323	30	1000	≤ 0.290	1
▼ BAS 3010B-03W	3k*	SP000068630	SOD323	30	1000	≤ 0.360	1
▼ BAT 54	3k*	SP000068499	SOT23	30	200	0.320	1
▼ BAT 54-02LRH	3k*	SP000234099	TSLP-2-7	30	200	0.320	1
▼ BAT 54-02V	3k*	SP000232851	SC79	30	200	0.320	1
▼ BAT 54-04 (Dual)	3k*	SP000068500	SOT323	30	200	0.320	1
▼ BAT 54-04W (Dual)	3k*	SP000233428	SOT23	30	200	0.320	1
▼ BAT 54-05 (Dual)	3k*	SP000068509	SOT23	30	200	0.320	1
▼ BAT 54-05W (Dual)	3k*	SP000233429	SOT323	30	200	0.320	1
▼ BAT 54-06 (Dual)	3k*	SP000068510	SOT23	30	200	0.320	1
▼ BAT 54-06W (Dual)	3k*	SP000233430	SOT323	30	200	0.320	1
▼ BAT 54W (Dual)	3k*	SP000233431	SOT323	30	200	0.320	1
■ BAT 64	3k*	SP000010307	SOT23	40	250	0.385	1
BAT 64-02W	3k*	SP000012516	SCD80	40	250	0.385	1
■ BAT 64-04 (Dual)	3k*	SP000010309	SOT23	40	250	0.385	1
BAT 64-04 (Dual)	10k*	SP000010314	SOT23	40	250	0.385	1
BAT 64-04T (Dual)	3k*	SP000029976	SC75	40	250	0.385	1
■ BAT 64-04W (Dual)	3k*	SP000014600	SOT323	40	250	0.385	1
■ BAT 64-05 (Dual)	3k*	SP000010310	SOT23	40	250	0.385	1
BAT 64-05W (Dual)	3k*	SP000014601	SOT323	40	250	0.385	1
■ BAT 64-06 (Dual)	3k*	SP000010311	SOT23	40	250	0.385	1
BAT 64-06W (Dual)	3k*	SP000014602	SOT323	40	250	0.385	1
BAT 165	3k*	SP000010277	SOD323	40	750	≤ 0.700	750
BAT 240A (Dual)	3k*	SP000010292	SOT23	240	400	0.325	10

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\* Order unit

SMD = Surface Mounted Device

# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )			
			$V_{CE0}$ V	$I_{CM}$ mA	$h_{FE}$ at	$I_C$ mA	$V_{CE}$ V	

## AF Transistors

### NPN Transistors (8 mm Tape)

BC 817-16	3k*	SP000010501	SOT23	45	1000	100 ... 250	100	1
BC 817-16	10k*	SP000010513	SOT23	45	1000	100 ... 250	100	1
▼ BC 817-16	9x10k*	SP000223935	SOT23	45	1000	100 ... 250	100	1
▼ BC 817-16	10x3k*	SP000223882	SOT23	45	1000	100 ... 250	100	1
BC 817-25	3k*	SP000010500	SOT23	45	1000	160 ... 400	100	1
BC 817-25	10k*	SP000010510	SOT23	45	1000	160 ... 400	100	1
▼ BC 817-25	9x10k*	SP000223936	SOT23	45	1000	160 ... 400	100	1
▼ BC 817-25	10x3k*	SP000223884	SOT23	45	1000	160 ... 400	100	1
BC 817-25W	3k*	SP000010485	SOT323	45	1000	160 ... 400	100	1
▼ BC 817-25W	10k*	SP000010484	SOT323	45	1000	160 ... 400	100	1
BC 817-40	3k*	SP000010502	SOT23	45	1000	250 ... 630	100	1
BC 817-40	10k*	SP000010512	SOT23	45	1000	250 ... 630	100	1
▼ BC 817-40	9x10k*	SP000223938	SOT23	45	1000	250 ... 630	100	1
▼ BC 817-40	10x3k*	SP000223885	SOT23	45	1000	250 ... 630	100	1
BC 817-40W	3k*	SP000010487	SOT323	45	1000	250 ... 630	100	1
BC 818-16W	3k*	SP000010488	SOT323	25	1000	100 ... 250	100	1
BC 818-25	3k*	SP000010503	SOT23	25	1000	160 ... 400	100	1
BC 818-40	3k*	SP000010495	SOT23	25	1000	250 ... 630	100	1
BC 846A	3k*	SP000010531	SOT23	65	200	110 ... 220	2	5
BC 846A	10k*	SP000010532	SOT23	65	200	110 ... 220	2	5
BC 846B	3k*	SP000010530	SOT23	65	200	200 ... 450	2	5
BC 846B	10k*	SP000010534	SOT23	65	200	200 ... 450	2	5
▼ BC 846B	9x10k*	SP000223940	SOT23	65	200	200 ... 450	2	5
▼ BC 846B	10x3k*	SP000223891	SOT23	65	200	200 ... 450	2	5
BC 846BW	3k*	SP000010523	SOT323	65	200	200 ... 450	2	5
BC 847A	3k*	SP000010571	SOT23	45	200	110 ... 220	2	5
■ BC 847B	3k*	SP000010559	SOT23	45	200	200 ... 450	2	5
▼ BC 847B	3k*	SP000209608	SOT23	45	200	200 ... 450	2	5
BC 847B	10k*	SP000010576	SOT23	45	200	200 ... 450	2	5
▼ BC 847B	9x10k*	SP000223941	SOT23	45	200	200 ... 450	2	5
▼ BC 847B	10x3k*	SP000223887	SOT23	45	200	200 ... 450	2	5
BC 847BF	3k*	SP000012995	TSFP-3	45	200	200 ... 450	2	5
BC 847BL3	15k*	SP000013553	TSLP-3-1	45	200	200 ... 450	2	5
BC 847BT	10k*	SP000012401	SC75	45	200	200 ... 450	2	5
■ BC 847BW	3k*	SP000010606	SOT323	45	200	200 ... 450	2	5
BC 847C	3k*	SP000010565	SOT23	45	200	420 ... 800	2	5
BC 847C	10k*	SP000010590	SOT23	45	200	420 ... 800	2	5
▼ BC 847C	9x10k*	SP000223942	SOT23	45	200	420 ... 800	2	5
▼ BC 847C	10x3k*	SP000223890	SOT23	45	200	420 ... 800	2	5
BC 847CW	3k*	SP000010607	SOT323	45	200	420 ... 800	2	5
▼ BC 847CW	10k*	SP000010616	SOT323	45	200	420 ... 800	2	5
▼ BC 847CW	10x3k*	SP000056355	SOT323	45	200	420 ... 800	2	5
BC 848A	3k*	SP000010568	SOT23	30	200	110 ... 220	2	5
BC 848B	3k*	SP000010561	SOT23	30	200	200 ... 450	2	5
BC 848B	10k*	SP000010581	SOT23	30	200	200 ... 450	2	5
BC 848BL3	15k*	SP000013554	TSLP-3-1	30	200	200 ... 450	2	5
BC 848BW	3k*	SP000010610	SOT323	30	200	200 ... 450	2	5

\* Order unit

SMD = Surface Mounted Device



# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )			
			$V_{CE0}$ V	$I_{CM}$ mA	$h_{FE}$ at	$I_C$ mA	$V_{CE}$ V	

## AF Diodes

### NPN Diodes (8 mm Tape)

(cont'd)

BC 848C	3k*	SP000010552	SOT23	30	200	420 ... 800	2	5
▼ BC 848C	10x3k*	SP000095914	SOT23	30	200	420 ... 800	2	5
BC 848C	10k*	SP000010582	SOT23	30	200	420 ... 800	2	5
BC 848CW	3k*	SP000010611	SOT323	30	200	420 ... 800	2	5
BC 849B	3k*	SP000010567	SOT23	30	200	200 ... 450	2	5
BC 849C	3k*	SP000010564	SOT23	30	200	420 ... 800	2	5
BC 849CW	3k*	SP000010613	SOT323	30	200	420 ... 800	2	5
BC 850B	3k*	SP000010572	SOT23	45	200	200 ... 450	2	5
▼ BC 850B	9x10k*	SP000223943	SOT23	45	200	200 ... 450	2	5
▼ BC 850B	10x3k*	SP000223897	SOT23	45	200	200 ... 450	2	5
▼ BC 850BF	3k*	SP000012997	TSFP-3	45	200	200 ... 450	2	5
BC 850BW	3k*	SP000010614	SOT323	45	200	200 ... 450	2	5
BC 850C	3k*	SP000010563	SOT23	45	200	420 ... 800	2	5
▼ BC 850C	9x10k*	SP000207342	SOT23	45	200	420 ... 800	2	5
▼ BC 850C	10x3k*	SP000223898	SOT23	45	200	420 ... 800	2	5
BC 850CW	3k*	SP000010615	SOT323	45	200	420 ... 800	2	5
BCW 60B	3k*	SP000010551	SOT23	32	200	180 ... 310	2	5
BCW 60C	3k*	SP000010548	SOT23	32	200	250 ... 460	2	5
BCW 60D	3k*	SP000010549	SOT23	32	200	380 ... 630	2	5
BCW 60FF	3k*	SP000010554	SOT23	32	200	250 ... 460	2	5
BCW 66F	3k*	SP000010504	SOT23	45	1000	100 ... 250	100	1
BCW 66G	3k*	SP000010496	SOT23	45	1000	160 ... 400	100	1
▼ BCW 66G	10k*	SP000010509	SOT23	45	1000	160 ... 400	100	1
BCW 66H	3k*	SP000010499	SOT23	45	1000	250 ... 630	100	1
▼ BCW 66H	10x3k*	SP000010493	SOT23	45	1000	250 ... 630	100	1
BCX 41	3k*	SP000010894	SOT23	125	1000	≥ 63	100	1
BCX 70G	3k*	SP000010555	SOT23	45	200	120 ... 220	2	5
BCX 70H	3k*	SP000010550	SOT23	45	200	180 ... 310	2	5
BCX 70H	10k*	SP000010578	SOT23	45	200	180 ... 310	2	5
BCX 70J	3k*	SP000010556	SOT23	45	200	250 ... 460	2	5
BCX 70J	10k*	SP000010573	SOT23	45	200	250 ... 460	2	5
BCX 70K	3k*	SP000010558	SOT23	45	200	380 ... 630	2	5
BDP 947	1k*	SP000010931	SOT223	45	5000	40 ... 475	500	1
BDP 949	1k*	SP000010932	SOT223	60	5000	40 ... 475	500	1
BDP 953	1k*	SP000010934	SOT223	100	5000	40 ... 475	500	1
■ SMBT 2222A	3k*	SP000011176	SOT23	40	600	100 ... 300	150	10
▼ MMBT 2222A	3k*	SP000011174	SOT23	40	600	100 ... 300	150	10
SMBT 3904	3k*	SP000011673	SOT23	40	200	100 ... 300	10	1
SMBT 3904	10k*	SP000011675	SOT23	40	200	100 ... 300	10	1
▼ SMBT 3904	9x10k*	SP000223947	SOT23	40	200	100 ... 300	10	1
▼ SMBT 3904	10x3k*	SP000223860	SOT23	40	200	100 ... 300	10	1
▼ MMBT 3904	3k*	SP000011671	SOT23	40	200	100 ... 300	10	1
▼ MMBT 3904	10k*	SP000011670	SOT23	40	200	100 ... 300	10	1
SMBTA 06	3k*	SP000011686	SOT23	80	500	≥ 100	100	1
▼ MMBTA 06	3k*	SP000011685	SOT23	80	500	≥ 100	100	1
SMBTA 06	10k*	SP000011688	SOT23	80	500	≥ 100	100	1

\* Order unit

SMD = Surface Mounted Device



# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings				Resistance Value	
			$V_{CEO}$	$V_{I(on)max}$	$I_C$	$P_{tot}$	$R_1$	$R_2$
			V	V	mA	mW	k $\Omega$	k $\Omega$

## AF Transistors

### NPN Digital Transistors (8 mm Tape)

BCR 101L3	15k*	SP000014850	TSLP-3-4	50	50	50	250	100	100
BCR 101T	3k*	SP000014813	SC75	50	50	50	250	100	100
BCR 103F	3k*	SP000014847	TSFP-3	50	10	100	250	2.2	2.2
BCR 103L3	15k*	SP000014756	TSLP-3-4	50	10	100	250	2.2	2.2
BCR 103T	3k*	SP000014757	SC75	50	10	100	250	2.2	2.2
BCR 108	3k*	SP000010736	SOT23	50	10	100	200	2.2	47
BCR 108	10k*	SP000010737	SOT23	50	10	100	200	2.2	47
▼ BCR 108	10x3k*	SP000056348	SOT23	50	10	100	200	2.2	47
BCR 108F	3k*	SP000013046	TSFP-3	50	10	100	250	2.2	47
BCR 108L3	15k*	SP000014758	TSLP-3-4	50	10	100	250	2.2	47
BCR 108T	3k*	SP000012799	SC75	50	10	100	250	2.2	47
BCR 108W	3k*	SP000010746	SOT323	50	10	100	250	2.2	47
BCR 112	3k*	SP000010747	SOT23	50	15	100	200	4.7	4.7
BCR 112F	3k*	SP000014062	TSFP-3	50	15	100	250	4.7	4.7
BCR 112L3	15k*	SP000014852	TSLP-3-4	50	15	100	250	4.7	4.7
BCR 112T	3k*	SP000014126	SC75	50	15	100	250	4.7	4.7
BCR 112W	3k*	SP000010748	SOT323	50	15	100	250	4.7	4.7
BCR 114F	3k*	SP000014848	TSFP-3	50	15	100	250	4.7	10
BCR 114L3	15k*	SP000014851	TSLP-3-4	50	15	100	250	4.7	10
BCR 114T	3k*	SP000014773	SC75	50	15	100	250	4.7	10
BCR 116	3k*	SP000010749	SOT23	50	15	100	200	4.7	47
BCR 116	10k*	SP000010751	SOT23	50	15	100	200	4.7	47
BCR 116F	3k*	SP000013047	TSFP-3	50	15	100	250	4.7	47
BCR 116L3	15k*	SP000014853	TSLP-3-4	50	15	100	250	4.7	47
BCR 116T	3k*	SP000014775	SC75	50	15	100	250	4.7	47
BCR 116W	3k*	SP000012264	SOT323	50	15	100	250	4.7	47
BCR 119	3k*	SP000010752	SOT23	50	15	100	200	4.7	–
▼ BCR 119	10k*	SP000010754	SOT23	50	15	100	200	4.7	–
BCR 119F	3k*	SP000014440	TSFP-3	50	15	100	250	4.7	–
BCR 119L3	15k*	SP000014854	TSLP-3-4	50	15	100	250	4.7	–
BCR 119T	3k*	SP000014774	SC75	50	15	100	250	4.7	–
BCR 119W	3k*	SP000012267	SOT323	50	15	100	250	4.7	–
■ BCR 129	3k*	SP000012520	SOT23	50	20	100	200	10	–
BCR 129F	3k*	SP000014441	TSFP-3	50	20	100	250	10	–
BCR 129L3	15k*	SP000014855	TSLP-3-4	50	20	100	250	10	–
BCR 129T	3k*	SP000012800	SC75	50	20	100	250	10	–
▼ BCR 129W	3k*	SP000014963	SOT323	50	20	100	250	10	–
BCR 133	3k*	SP000010757	SOT23	50	20	100	200	10	10
▼ BCR 133	10k*	SP000010759	SOT23	50	20	100	200	10	10
▼ BCR 133	10x3k*	SP000056346	SOT23	50	20	100	200	10	10
BCR 133F	3k*	SP000014050	TSFP-3	50	20	100	250	10	10
▼ BCR 133F	10x3k*	SP000014049	TSFP-3	50	20	100	250	10	10
BCR 133L3	15k*	SP000013564	TSLP-3-4	50	20	100	250	10	10
BCR 133T	3k*	SP000012801	SC75	50	20	100	250	10	10
■ BCR 133W	3k*	SP000010764	SOT323	50	20	100	250	10	10

\* Order unit

SMD = Surface Mounted Device

# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings				Resistance Value	
			$V_{CEO}$	$V_{I(on)max}$	$I_C$	$P_{tot}$	$R_1$	$R_2$
			V	V	mA	mW	k $\Omega$	k $\Omega$

## AF Transistors

### NPN Digital Transistors (8 mm Tape)

(cont'd)

BCR 135	3k*	SP000010765	SOT23	50	20	100	200	10	47
BCR 135	10k*	SP000010767	SOT23	50	20	100	200	10	47
▼ BCR 135	10x3k*	SP000095915	SOT23	50	20	100	200	10	47
BCR 135F	3k*	SP000013048	TSFP-3	50	20	100	250	10	47
BCR 135L3	15k*	SP000014856	TSLP-3-4	50	20	100	250	10	47
BCR 135T	3k*	SP000012802	SC75	50	20	100	250	10	47
BCR 135W	3k*	SP000010768	SOT323	50	20	100	250	10	47
BCR 139F	3k*	SP000014442	TSFP-3	50	30	100	250	22	–
BCR 139L3	15k*	SP000014857	TSLP-3-4	50	30	100	250	22	–
BCR 139T	3k*	SP000014763	SC75	50	30	100	250	22	–
BCR 141	3k*	SP000010769	SOT23	50	30	100	200	22	22
▼ BCR 141	10k*	SP000010771	SOT23	50	30	100	200	22	22
BCR 141F	3k*	SP000013049	TSFP-3	50	30	100	250	22	22
BCR 141L3	15k*	SP000014858	TSLP-3-4	50	30	100	250	22	22
BCR 141T	3k*	SP000012803	SC75	50	30	100	250	22	22
BCR 141W	3k*	SP000010773	SOT323	50	30	100	250	22	22
BCR 142	3k*	SP000010775	SOT23	50	30	100	200	22	47
▼ BCR 142	10x3k*	SP000010774	SOT23	50	30	100	200	22	47
BCR 142F	3k*	SP000014063	TSFP-3	50	30	100	250	22	47
BCR 142L3	15k*	SP000014859	TSLP-3-4	50	30	100	250	22	47
BCR 142T	3k*	SP000012804	SC75	50	30	100	250	22	47
BCR 142W	3k*	SP000012269	SOT323	50	30	100	250	22	47
BCR 146	3k*	SP000010777	SOT23	50	50	70	200	47	22
BCR 146F	3k*	SP000014443	TSFP-3	50	50	70	250	47	22
BCR 146L3	15k*	SP000014860	TSLP-3-4	50	50	70	250	47	22
BCR 146T	3k*	SP000014776	SC75	50	50	70	250	47	22
BCR 148	3k*	SP000010780	SOT23	50	50	70	200	47	47
▼ BCR 148	10x3k*	SP000056351	SOT23	50	50	70	200	47	47
BCR 148F	3k*	SP000013051	TSFP-3	50	50	70	250	47	47
▼ BCR 148F	10x3k*	SP000013050	TSFP-3	50	50	70	250	47	47
BCR 148L3	15k*	SP000014861	TSLP-3-4	50	50	70	250	47	47
BCR 148T	3k*	SP000012805	SC75	50	50	70	250	47	47
■ BCR 148W	3k*	SP000010783	SOT323	50	50	70	250	47	47
BCR 149F	3k*	SP000014849	TSFP-3	50	50	70	250	47	–
BCR 149L3	15k*	SP000014862	TSLP-3-4	50	50	70	250	47	–
BCR 149 T	3k*	SP000014814	SC75	50	50	70	250	47	–
BCR 503	3k*	SP000010839	SOT23	50	12	500	330	2.2	2.2
▼ BCR 503	10x3k*	SP000056345	SOT23	50	12	500	330	2.2	2.2
BCR 505	3k*	SP000010841	SOT23	50	12	500	330	2.2	10
BCR 512	3k*	SP000010844	SOT23	50	30	500	330	4.7	4.7
▼ BCR 512	10x3k*	SP000056341	SOT23	50	30	500	330	4.7	4.7
▼ BCR 519	3k*	SP000015052	SOT23	50	30	500	330	4.7	–
BCR 521	3k*	SP000010845	SOT23	50	10	500	330	1.0	1.0
BCR 523	3k*	SP000010851	SOT23	50	12	500	330	1.0	10
BCR 523	10k*	SP000010852	SOT23	50	12	500	330	1.0	10
BCR 533	3k*	SP000010853	SOT23	50	40	500	330	10	10

\* Order unit

SMD = Surface Mounted Device

# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )				
			$V_{\text{CEO}}$ V	$I_{\text{CM}}$ mA	$f_{\text{T}}$ MHz	$h_{\text{FE}}$	at	$I_{\text{C}}$ mA	$V_{\text{CE}}$ V

## AF Transistors

### NPN Transistors (12 mm Tape)

BCP 54	1k*	SP000010707	SOT223	45	1500	125	40 ... 250	150	2
BCP 54-16	1k*	SP000010709	SOT223	45	1500	125	100 ... 250	150	2
BCP 54-16	4k*	SP000010717	SOT223	45	1500	125	100 ... 250	150	2
BCP 55	1k*	SP000010713	SOT223	60	1500	125	40 ... 250	150	2
BCP 55-16	1k*	SP000010711	SOT223	60	1500	125	100 ... 250	150	2
BCP 56-10	1k*	SP000010712	SOT223	80	1500	125	63 ... 160	150	2
▼ BCP 56-10	4k*	SP000010718	SOT223	80	1500	125	63 ... 160	150	2
BCP 56-16	1k*	SP000010706	SOT223	80	1500	125	100 ... 250	150	2
BCP 68-25	1k*	SP000010721	SOT223	20	2000	100	160 ... 375	500	1
BCX 54-16	1k*	SP000010918	SOT89	45	1500	100	100 ... 250	150	2
BCX 55	1k*	SP000010916	SOT89	60	1500	100	40 ... 250	150	2
BCX 55-16	1k*	SP000010920	SOT89	60	1500	100	100 ... 250	150	2
BCX 55-16	4k*	SP000010922	SOT89	60	1500	100	100 ... 250	150	2
BCX 56	1k*	SP000010914	SOT89	80	1500	100	40 ... 250	150	2
BCX 56-10	1k*	SP000010915	SOT89	80	1500	100	63 ... 160	150	2
BCX 56-16	1k*	SP000010913	SOT89	80	1500	100	100 ... 250	150	2
▼ BCX 56-16	4k*	SP000017942	SOT89	80	1500	100	100 ... 250	150	2
BCX 68-10	1k*	SP000010924	SOT89	20	2000	100	85 ... 160	500	1
BCX 68-16	1k*	SP000010925	SOT89	20	2000	100	100 ... 250	500	1
BCX 68-25	1k*	SP000010926	SOT89	20	2000	100	160 ... 375	500	1



\* Order unit

SMD = Surface Mounted Device

# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )			
			$V_{\text{CEO}}$	$I_{\text{CM}}$	$h_{\text{FE}}$	at	$I_{\text{C}}$	$V_{\text{CE}}$
			V	mA			mA	V

## AF Transistors

### PNP Transistors (8 mm Tape)

BC 807-16	3k*	SP000010474	SOT23	45	1000	100 ... 250	100	1
BC 807-16	10k*	SP000010475	SOT23	45	1000	100 ... 250	100	1
BC 807-16W	3k*	SP000014778	SOT323	45	1000	100 ... 250	100	1
BC 807-25	3k*	SP000010472	SOT23	45	1000	160 ... 400	100	1
BC 807-25	10k*	SP000010478	SOT23	45	1000	160 ... 400	100	1
▼ BC 807-25	9x10k*	SP000223932	SOT23	45	1000	160 ... 400	100	1
▼ BC 807-25	10x3k*	SP000223880	SOT23	45	1000	160 ... 400	100	1
BC 807-25W	3k*	SP000014779	SOT323	45	1000	160 ... 400	100	1
BC 807-40	3k*	SP000010473	SOT23	45	1000	250 ... 630	100	1
BC 807-40	10k*	SP000010477	SOT23	45	1000	250 ... 630	100	1
▼ BC 807-40	9x10k*	SP000223933	SOT23	45	1000	250 ... 630	100	1
▼ BC 807-40	10x3k*	SP000223878	SOT23	45	1000	250 ... 630	100	1
BC 807-40W	3k*	SP000014688	SOT323	45	1000	250 ... 630	100	1
BC 807-40W	10k*	SP000014689	SOT323	45	1000	250 ... 630	100	1
BC 808-25	3k*	SP000015031	SOT23	25	1000	160 ... 400	100	1
BC 808-25	10k*	SP000015033	SOT23	25	1000	160 ... 400	100	1
BC 808-25W	3k*	SP000014777	SOT323	25	1000	160 ... 400	100	1
BC 808-40	3k*	SP000015032	SOT23	25	1000	250 ... 630	100	1
▼ BC 808-40	10x3k*	SP000095913	SOT23	25	1000	250 ... 630	100	1
BC 808-40W	3k*	SP000010462	SOT323	25	1000	250 ... 630	100	1
BC 856A	3k*	SP000012934	SOT23	65	200	125 ... 250	2	5
BC 856B	3k*	SP000012935	SOT23	65	200	220 ... 475	2	5
BC 856B	10k*	SP000012936	SOT23	65	200	220 ... 475	2	5
BC 856BW	3k*	SP000012943	SOT323	65	200	220 ... 475	2	5
BC 856BW	10k*	SP000012945	SOT323	65	200	220 ... 475	2	5
BC 857A	3k*	SP000010639	SOT23	45	200	125 ... 250	2	5
BC 857B	3k*	SP000010633	SOT23	45	200	220 ... 475	2	5
BC 857B	10k*	SP000010648	SOT23	45	200	220 ... 475	2	5
▼ BC 857B	9x10k*	SP000223944	SOT23	45	200	220 ... 475	2	5
▼ BC 857B	10x3k*	SP000223899	SOT23	45	200	220 ... 475	2	5
BC 857BF	3k*	SP000012999	TSFP-3	45	200	220 ... 475	2	5
BC 857BL3	3k*	SP000013556	TSLP-3-1	45	200	220 ... 475	2	5
BC 857BT	3k*	SP000012404	SC75	65	200	220 ... 475	2	5
■ BC 857BW	3k*	SP000010672	SOT323	45	200	220 ... 475	2	5
BC 857C	3k*	SP000010640	SOT23	45	200	420 ... 800	2	5
BC 857C	10k*	SP000010660	SOT23	45	200	420 ... 800	2	5
▼ BC 857C	9x10k*	SP000223945	SOT23	45	200	420 ... 800	2	5
▼ BC 857C	10x3k*	SP000223900	SOT23	45	200	420 ... 800	2	5
BC 857CW	3k*	SP000010673	SOT323	45	200	420 ... 800	2	5
BC 857CW	10k*	SP000010682	SOT323	45	200	420 ... 800	2	5
BC 858A	3k*	SP000010636	SOT23	30	200	125 ... 250	2	5
BC 858B	3k*	SP000010634	SOT23	30	200	220 ... 475	2	5
BC 858B	10k*	SP000010652	SOT23	30	200	220 ... 475	2	5
BC 858BL3	3k*	SP000013555	TSLP-3-1	30	200	220 ... 475	2	5
BC 858BW	3k*	SP000010675	SOT323	30	200	220 ... 475	2	5

\* Order unit

SMD = Surface Mounted Device



# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )			
			$V_{\text{CEO}}$	$I_{\text{CM}}$	$h_{\text{FE}}$	at	$I_{\text{C}}$	$V_{\text{CE}}$
			V	mA			mA	V

## AF Transistors

### PNP Transistors (8 mm Tape)

(cont'd)

BC 858C	3k*	SP000010624	SOT23	30	200	420 ... 800	2	5
BC 858C	10k*	SP000010654	SOT23	30	200	420 ... 800	2	5
BC 858CW	3k*	SP000010676	SOT323	30	200	420 ... 800	2	5
BC 859C	3k*	SP000010637	SOT23	30	200	420 ... 800	2	5
BC 860B	3k*	SP000010642	SOT23	45	200	220 ... 475	2	5
▼ BC 860BF	3k*	SP000013002	TSFP-3	45	200	220 ... 475	2	5
BC 860BW	3k*	SP000010680	SOT323	45	200	220 ... 475	2	5
▼ BC 860C	9x10k*	SP000223946	SOT23	45	200	420 ... 800	2	5
▼ BC 860C	10x3k*	SP000223901	SOT23	45	200	420 ... 800	2	5
BC 860CW	3k*	SP000010681	SOT323	45	200	420 ... 800	2	5
BCW 61A	3k*	SP000010621	SOT23	32	200	120 ... 220	2	5
BCW 61B	3k*	SP000010629	SOT23	32	200	180 ... 310	2	5
BCW 61C	3k*	SP000010622	SOT23	32	200	250 ... 460	2	5
BCW 61D	3k*	SP000010627	SOT23	32	200	380 ... 630	2	5
BCW 67A	3k*	SP000015036	SOT23	32	1000	100 ... 250	100	1
BCW 67B	3k*	SP000015035	SOT23	32	1000	160 ... 400	100	1
BCW 67C	3k*	SP000015037	SOT23	32	1000	250 ... 630	100	1
BCW 68F	3k*	SP000015041	SOT23	45	1000	100 ... 250	100	1
BCW 68G	3k*	SP000015039	SOT23	45	1000	160 ... 400	100	1
BCW 68H	3k*	SP000015040	SOT23	45	1000	250 ... 630	100	1
BCX 42	3k*	SP000010900	SOT23	125	1000	≥ 63	100	1
BCX 42	10k*	SP000010902	SOT23	125	1000	≥ 63	100	1
BCX 71G	3k*	SP000010623	SOT23	45	200	120 ... 220	2	5
BCX 71H	3k*	SP000010631	SOT23	45	200	180 ... 310	2	5
BCX 71J	3k*	SP000010625	SOT23	45	200	250 ... 460	2	5
BCX 71J	10k*	SP000010647	SOT23	45	200	250 ... 460	2	5
BCX 71K	3k*	SP000010632	SOT23	45	200	380 ... 630	2	5
BDP 948	1k*	SP000010938	SOT223	45	5000	40 ... 475	500	1
BDP 948	4k*	SP000010943	SOT223	45	5000	40 ... 475	500	1
BDP 950	1k*	SP000010939	SOT223	60	5000	40 ... 475	500	1
BDP 954	1k*	SP000010941	SOT223	100	5000	40 ... 475	500	1
■ SMBT 2907A	3k*	SP000011181	SOT23	60	600	100 ... 300	150	10
▼ MMBT 2907A	3k*	SP000011179	SOT23	60	600	100 ... 300	150	10
■ SMBT 3906	3k*	SP000011680	SOT23	40	200	100 ... 300	10	1
▼ SMBT 3906	3k*	SP000084312	SOT23	40	200	100 ... 300	10	1
SMBT 3906 E-6767	3k*	SP000011677	SOT23	40	200	100 ... 300	10	1
▼ SMBT 3906	9x10k*	SP000223948	SOT23	40	200	100 ... 300	10	1
▼ SMBT 3906	10x3k*	SP000223858	SOT23	40	200	100 ... 300	10	1
▼ MMBT 3906	3k*	SP000011678	SOT23	40	200	100 ... 300	10	1
SMBTA 56	3k*	SP000011692	SOT23	80	500	≥ 100	100	1
▼ MMBTA 56	3k*	SP000011691	SOT23	80	500	≥ 100	100	1
SMBTA 56	10k*	SP000011695	SOT23	80	500	≥ 100	100	1

\* Order unit

SMD = Surface Mounted Device

# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings				Resistance Values	
			$V_{CEO}$	$V_{I(on) max}$	$I_C$	$P_{tot}$	$R_1$	$R_2$
			V	V	mA	mW	kΩ	kΩ

## AF Transistors

### PNP Digital Transistors (8 mm Tape)

BCR 151F	3k*	SP000014863	TSFP-3	50	50	50	250	100	100
BCR 151L3	15k*	SP000014865	TSLP-3-4	50	50	50	250	100	100
BCR 151T	3k*	SP000014815	SC75	50	50	50	250	100	100
BCR 153F	3k*	SP000014444	TSFP-3	50	10	100	250	2.2	2.2
BCR 153L3	15k*	SP000014866	TSLP-3-4	50	10	100	250	2.2	2.2
BCR 153T	3k*	SP000014764	SC75	50	10	100	250	2.2	2.2
BCR 158	3k*	SP000010784	SOT23	50	10	100	200	2.2	47
▼ BCR 158	10x3k*	SP000056353	SOT23	50	10	100	200	2.2	47
BCR 158F	3k*	SP000013053	TSFP-3	50	10	100	250	2.2	47
BCR 158L3	15k*	SP000014867	TSLP-3-4	50	10	100	250	2.2	47
BCR 158T	3k*	SP000012806	SC75	50	10	100	250	2.2	47
BCR 158W	3k*	SP000012761	SOT323	50	10	100	250	2.2	47
▼ BCR 158W	10x3k*	SP000056347	SOT323	50	10	100	250	2.2	47
BCR 162	3k*	SP000010785	SOT23	50	15	100	200	4.7	4.7
▼ BCR 162	10x3k*	SP000056352	SOT23	50	15	100	200	4.7	4.7
BCR 162F	3k*	SP000014445	TSFP-3	50	15	100	250	4.7	4.7
BCR 162L3	15k*	SP000014868	TSLP-3-4	50	15	100	250	4.7	4.7
BCR 162T	3k*	SP000012545	SC75	50	15	100	250	4.7	4.7
BCR 164F	3k*	SP000014864	TSFP-3	50	15	100	250	4.7	10
BCR 164L3	15k*	SP000014869	TSLP-3-4	50	15	100	250	4.7	10
BCR 164T	3k*	SP000014817	SC75	50	15	100	250	4.7	10
BCR 166	3k*	SP000010788	SOT23	50	15	100	200	4.7	47
BCR 166	10k*	SP000010791	SOT23	50	15	100	200	4.7	47
▼ BCR 166	10x3k*	SP000056344	SOT23	50	15	100	200	4.7	47
BCR 166F	3k*	SP000014446	TSFP-3	50	15	100	250	4.7	47
BCR 166L3	15k*	SP000014870	TSLP-3-4	50	15	100	250	4.7	47
BCR 166T	3k*	SP000014766	SC75	50	15	100	250	4.7	47
BCR 166W	3k*	SP000012875	SOT323	50	15	100	250	4.7	47
BCR 169	3k*	SP000010793	SOT23	50	15	100	200	4.7	—
BCR 169F	3k*	SP000014447	TSFP-3	50	15	100	250	4.7	—
BCR 169L3	15k*	SP000014871	TSLP-3-4	50	15	100	250	4.7	—
BCR 169T	3k*	SP000014767	SC75	50	15	100	250	4.7	—
BCR 169W	3k*	SP000012271	SOT323	50	15	100	250	4.7	—
BCR 179F	3k*	SP000014791	TSFP-3	50	20	100	250	10	—
BCR 179L3	15k*	SP000014872	TSLP-3-4	50	20	100	250	10	—
BCR 179T	3k*	SP000014768	SC75	50	20	100	250	10	—
■ BCR 183	3k*	SP000010794	SOT23	50	20	100	200	10	10
BCR 183	10k*	SP000010796	SOT23	50	20	100	200	10	10
▼ BCR 183	10x3k*	SP000057461	SOT23	50	20	100	200	10	10
BCR 183F	3k*	SP000012994	TSFP-3	50	20	100	250	10	10
BCR 183L3	15k*	SP000013565	TSLP-3-4	50	20	100	250	10	10
BCR 183T	3k*	SP000012807	SC75	50	20	100	250	10	10
BCR 183W	3k*	SP000010805	SOT323	50	20	100	250	10	10
■ BCR 185	3k*	SP000010806	SOT23	50	20	100	200	10	47
▼ BCR 185	10k*	SP000010807	SOT23	50	20	100	200	10	47

\* Order unit

SMD = Surface Mounted Device



# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings				Resistance Values	
			$V_{CEO}$	$V_{I(on)max}$	$I_C$	$P_{tot}$	$R_1$	$R_2$
			V	V	mA	mW	k $\Omega$	k $\Omega$

## AF Transistors

### PNP Digital Transistors (8 mm Tape)

(cont'd)

BCR 185F	3k*	SP000013054	TSFP-3	50	20	100	250	10	47
BCR 185L3	15k*	SP000014873	TSLP-3-4	50	20	100	250	10	47
BCR 185T	3k*	SP000014106	SC75	50	20	100	250	10	47
BCR 185W	3k*	SP000010808	SOT323	50	20	100	250	10	47
BCR 189F	3k*	SP000014448	TSFP-3	50	30	100	250	22	–
BCR 189L3	15k*	SP000014874	TSLP-3-4	50	30	100	250	22	–
BCR 189T	3k*	SP000014818	SC75	50	30	100	250	22	–
■ BCR 191	3k*	SP000010810	SOT23	50	30	100	200	22	22
BCR 191F	3k*	SP000014065	TSFP-3	50	30	100	250	22	22
BCR 191L3	15k*	SP000014875	TSLP-3-4	50	30	100	250	22	22
BCR 191T	3k*	SP000014789	SC75	50	30	100	250	22	22
BCR 191W	3k*	SP000012275	SOT323	50	30	100	250	22	22
BCR 192	3k*	SP000010812	SOT23	50	30	100	200	22	47
▼ BCR 192	10x3k*	SP000056349	SOT23	50	30	100	200	22	47
BCR 192F	3k*	SP000014066	TSFP-3	50	30	100	250	22	47
BCR 192L3	15k*	SP000014876	TSLP-3-4	50	30	100	250	22	47
BCR 192T	3k*	SP000012808	SC75	50	30	100	250	22	47
BCR 192W	3k*	SP000010816	SOT323	50	30	100	250	22	47
BCR 196	3k*	SP000014762	SOT23	50	50	70	250	47	22
BCR 196F	3k*	SP000014449	TSFP-3	50	50	70	250	47	22
BCR 196L3	15k*	SP000014877	TSLP-3-4	50	50	70	250	47	22
BCR 196T	3k*	SP000014765	SC75	50	50	70	250	47	22
BCR 196W	3k*	SP000018040	SOT323	50	50	70	250	47	22
■ BCR 198	3k*	SP000010817	SOT23	50	50	70	200	47	47
▼ BCR 198	10k*	SP000010820	SOT23	50	50	70	200	47	47
▼ BCR 198	10x3k*	SP000056350	SOT23	50	50	70	200	47	47
BCR 198F	3k*	SP000013055	TSFP-3	50	50	70	250	47	47
BCR 198L3	15k*	SP000014878	TSLP-3-4	50	50	70	250	47	47
BCR 198T	3k*	SP000013045	SC75	50	50	70	250	47	47
BCR 198W	3k*	SP000010824	SOT323	50	50	70	250	47	47
BCR 199F	3k*	SP000014879	TSFP-3	50	50	70	250	47	–
BCR 199L3	15k*	SP000014880	TSLP-3-4	50	50	70	250	47	–
BCR 199T	3k*	SP000014816	SC75	50	50	70	250	47	–
BCR 553	3k*	SP000010854	SOT23	50	12	500	330	2.2	2.2
BCR 555	3k*	SP000010855	SOT23	50	10	500	330	2.2	10
BCR 555	10k*	SP000010857	SOT23	50	10	500	330	2.2	10
BCR 562	3k*	SP000010859	SOT23	50	30	500	330	4.7	4.7
▼ BCR 569	3k*	SP000015053	SOT23	50	30	500	330	4.7	–
BCR 573	3k*	SP000010861	SOT23	50	12	500	330	1	10
▼ BCR 573	10k*	SP000010860	SOT23	50	12	500	330	1	10
BCR 583	3k*	SP000012278	SOT23	50	20	500	330	10	10

\* Order unit

SMD = Surface Mounted Device

# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings			
			$V_{CC}$	$V_{drop}$	at $I_d$	$P_{tot}$
			V	V	mA	mW

## Monolithic ICs

### LED Driver (8 mm Tape)

BCR 401R	3k*	SP000013678	SOT143	18	75	10	330
BCR 402R	3k*	SP000013057	SOT143	18	75	20	330
BCR 402U	3k*	SP000013482	SC74	40	0.8	20	500
BCR 405U	3k*	SP000013481	SC74	40	0.8	20	500

### SSICs Active Bias Controller (8 mm Tape)

BCR 400W	3k*	SP000010834	SOT343	18	0.65	1	330
BCR 410W	3k*	SP000012946	SOT343	18	0.11	0.2	100

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
			$V_{CE0}$	$I_{CM}$	$h_{FE}$	at $I_C$	$V_{CE}$
			V	mA		mA	V

## AF Transistors

### PNP Transistors (12 mm Tape)

BCP 51	1k*	SP000010692	SOT223	45	1500	40 ... 250	150	2
▼ BCP 51-10	1k*	SP000010693	SOT223	45	1500	63 ... 160	150	2
BCP 51-16	1k*	SP000010694	SOT223	45	1500	100 ... 250	150	2
BCP 51-16	4k*	SP000010703	SOT223	45	1500	100 ... 250	150	2
BCP 52-16	1k*	SP000010696	SOT223	60	1500	100 ... 250	150	2
BCP 53-10	1k*	SP000010697	SOT223	100	1500	63 ... 160	150	2
BCP 53-16	1k*	SP000010698	SOT223	100	1500	100 ... 250	150	2
▼ BCP 53-16	4k*	SP000010702	SOT223	100	1500	100 ... 250	150	2
BCP 69-16	1k*	SP000015153	SOT223	20	2000	100 ... 250	500	1
BCP 69-25	1k*	SP000015154	SOT223	20	2000	160 ... 375	500	1
▼ BCP 69 US	3k*	SP000013957	SC74	20	1000	100 ... 250	500	1
BCX 51	1k*	SP000014826	SOT89	45	1500	40 ... 250	150	2
▼ BCX 51-10	1k*	SP000014825	SOT89	45	1500	63 ... 160	150	2
BCX 51-16	1k*	SP000014827	SOT89	45	1500	100 ... 250	150	2
BCX 52	1k*	SP000014828	SOT89	60	1500	40 ... 250	150	2
BCX 52-16	1k*	SP000014830	SOT89	60	1500	100 ... 250	150	2
BCX 53	1k*	SP000010906	SOT89	80	1500	40 ... 250	150	2
BCX 53-10	1k*	SP000010908	SOT89	80	1500	63 ... 160	150	2
BCX 53-16	1k*	SP000010907	SOT89	80	1500	100 ... 250	150	2
BCX 53-16	4k*	SP000010909	SOT89	80	1500	100 ... 250	150	2
BCX 69-10	1k*	SP000010928	SOT89	20	2000	85 ... 160	500	1
BCX 69-16	1k*	SP000010929	SOT89	20	2000	100 ... 250	500	1
BCX 69-25	1k*	SP000010930	SOT89	20	2000	160 ... 375	500	1

\* Order unit

SMD = Surface Mounted Device

# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )				
			$V_{\text{CEO}}$ V	$I_{\text{CM}}$ mA	$f_{\text{T}}$ MHz	$h_{\text{FE}}$ at	$I_{\text{C}}$ mA	$V_{\text{CE}}$ V	

## AF Transistors

### NPN Darlington Transistors (8 mm Tape)

BCV 27	3k*	SP000010865	SOT23	30	800	170	$\geq 20000$	100	5
▼ BCV 27	10k*	SP000010869	SOT23	30	800	170	$\geq 20000$	100	5
BCV 47	3k*	SP000010866	SOT23	60	800	170	$\geq 10000$	100	5
▼ BCV 47	10k*	SP000010864	SOT23	60	800	170	$\geq 10000$	100	5
SMBTA 14	3k*	SP000010872	SOT23	30	500	$\geq 125$	$\geq 20000$	100	5
▼ MMBTA 14	3k*	SP000010862	SOT23	30	500	$\geq 125$	$\geq 20000$	100	5

### PNP Darlington Transistors (8 mm Tape)

BCV 26	3k*	SP000010874	SOT23	30	500	200	$\geq 20000$	100	5
BCV 46	3k*	SP000010873	SOT23	60	500	170	$\geq 10000$	100	5

### NPN Darlington Transistors (12 mm Tape)

BCP 49	1k*	SP000010685	SOT223	60	800	200	$\geq 10000$	100	5
BCV 29	1k*	SP000010883	SOT89	30	800	150	$\geq 20000$	100	5
BCV 49	1k*	SP000010882	SOT89	60	800	150	$\geq 10000$	100	5
BSP 50	1k*	SP000011126	SOT223	45	2000	200	$\geq 2000$	500	10
BSP 51	1k*	SP000011127	SOT223	60	2000	200	$\geq 2000$	500	10
BSP 52	1k*	SP000011128	SOT223	80	2000	200	$\geq 2000$	500	10
PZTA 14	1k*	SP000010688	SOT223	30	500	$\geq 125$	$\geq 20000$	100	5
PZTA 14	4k*	SP000010689	SOT223	30	500	$\geq 125$	$\geq 20000$	100	5

### PNP Darlington Transistors (12 mm Tape)

BCV 28	1k*	SP000010879	SOT89	30	800	200	$\geq 20000$	100	5
BCV 48	1k*	SP000010880	SOT89	60	800	200	$\geq 10000$	100	5
BSP 60	1k*	SP000011131	SOT223	45	2000	200	$\geq 2000$	500	10
▼ BSP 60	4k*	SP000011135	SOT223	45	2000	200	$\geq 2000$	500	10
BSP 61	1k*	SP000011132	SOT223	60	2000	200	$\geq 2000$	500	10
BSP 62	1k*	SP000011133	SOT223	80	2000	200	$\geq 2000$	500	10

\* Order unit

SMD = Surface Mounted Device

# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )				
			$V_{\text{CEO}}$ V	$I_{\text{CM}}$ mA	$f_{\text{T}}$ MHz	$h_{\text{FE}}$ at	$I_{\text{C}}$ mA	$V_{\text{CE}}$ V	

## AF Transistors

### NPN High Voltage Transistors (8 mm Tape)

BFN 24	3k*	SP000014784	SOT23	250	500	70	$\geq 40$	30	10
BFN 26	3k*	SP000014785	SOT23	300	500	70	$\geq 30$	30	10
BFN 26	10k*	SP000014786	SOT23	300	500	70	$\geq 30$	30	10
SMBTA 42	3k*	SP000011000	SOT23	300	500	70	$\geq 40$	30	10
▼ MMBTA 42	3k*	SP000010999	SOT23	300	500	70	$\geq 40$	30	10
SMBTA 42	10k*	SP000011001	SOT23	300	500	70	$\geq 40$	30	10

### PNP High Voltage Transistors (8 mm Tape)

BFN 27	3k*	SP000014782	SOT23	300	500	100	$\geq 30$	30	10
SMBTA 92	3k*	SP000011004	SOT23	300	500	100	$\geq 25$	30	10
▼ MMBTA 92	3k*	SP000011002	SOT23	300	500	100	$\geq 25$	30	10
SMBTA 92	10k*	SP000011005	SOT23	300	500	100	$\geq 25$	30	10
▼ PZTA 92	1k*	SP000011008	SOT223	300	500	100	$\geq 25$	30	10
▼ PZTA 92	4k*	SP000011009	SOT223	300	500	100	$\geq 25$	30	10

### NPN High Voltage Transistors (12 mm Tape)

BFN 18	1k*	SP000010997	SOT89	300	500	70	$\geq 30$	30	10
BFN 38	1k*	SP000011006	SOT223	300	500	70	$\geq 30$	30	10
PZTA 42	1k*	SP000014780	SOT223	300	500	70	$\geq 40$	30	10

### PNP High Voltage Transistors (12 mm Tape)

BFN 19	1k*	SP000010998	SOT89	300	500	100	$\geq 30$	30	10
BFN 39	1k*	SP000014781	SOT223	300	500	100	$\geq 30$	30	10

\* Order unit

SMD = Surface Mounted Device

# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings				Resistance Values	
			$V_{CE0}$	$V_{I(on) max}$	$I_C$	$P_{tot}$	$R_1$	$R_2$
			V	V	mA	mW	k $\Omega$	k $\Omega$

## AF Transistors

### Dual Digital Transistor Arrays NPN/PNP (8 mm Tape)

BCR 08PN	3k*	SP000010727	SOT363	50	50	100	250	2.2	47
▼ BCR 08PN	10k*	SP000083564	SOT363	50	50	100	250	2.2	47
▼ BCR 08PN	10x3k*	SP000010726	SOT363	50	50	100	250	2.2	47
BCR 10PN	3k*	SP000010732	SOT363	50	25	100	250	10	10
▼ BCR 10PN	10x3k*	SP000010731	SOT363	50	25	100	250	10	10
BCR 22PN	3k*	SP000010826	SOT363	50	30	100	250	22	22
BCR 22PN	10k*	SP000010827	SOT363	50	30	100	250	22	22
BCR 35PN	3k*	SP000010831	SOT363	50	20	100	250	10	47
BCR 35PN	10k*	SP000010832	SOT363	50	20	100	250	10	47
BCR 48PN	3k*	SP000010836	SOT363	50	50/10	100	250	47/2.2	47/47
▼ BCR 48PN	10k*	SP000010837	SOT363	50	50/10	100	250	47/2.2	47/47

### Dual Digital Transistor Arrays NPN (8 mm Tape)

BCR 108S	3k*	SP000010743	SOT363	50	10	100	250	2.2	47
BCR 108S	10k*	SP000010740	SOT363	50	10	100	250	2.2	47
BCR 116S	3k*	SP000012266	SOT363	50	15	100	250	4.7	47
BCR 119S	3k*	SP000012331	SOT363	50	15	100	250	4.7	–
BCR 119S	10k*	SP000012332	SOT363	50	15	100	250	4.7	–
BCR 129S	3k*	SP000010755	SOT363	50	20	100	250	10	–
BCR 133S	3k*	SP000010761	SOT363	50	20	100	250	10	10
▼ BCR 133S	10x3k*	SP000056343	SOT363	50	20	100	250	10	10
BCR 133S	10k*	SP000010763	SOT363	50	20	100	250	10	10
BCR 135S	3k*	SP000012335	SOT363	50	20	100	250	10	47
BCR 141S	3k*	SP000012336	SOT363	50	30	100	250	22	22
BCR 148S	3k*	SP000012338	SOT363	50	50	70	250	47	47
BCR 148S	10k*	SP000012339	SOT363	50	50	70	250	47	47
BCR 169S	3k*	SP000012272	SOT363	50	15	100	250	4.7	–
BCR 183S	3k*	SP000010802	SOT363	50	20	100	250	10	10
BCR 183S	10k*	SP000010804	SOT363	50	20	100	250	10	10
BCR 185S	3k*	SP000012273	SOT363	50	20	100	250	10	47
▼ BCR 185S	10x3k*	SP000056342	SOT363	50	20	100	250	10	47
BCR 198S	3k*	SP000010822	SOT363	50	50	70	250	47	47
BCR 523U	3k*	SP000013381	SC74	50	12	500	330	1.0	10

\* Order unit

SMD = Surface Mounted Device



## Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )				
			$V_{\text{CEO}}$	$I_{\text{CM}}$	$f_{\text{T}}$	$h_{\text{FE}}$	at	$I_{\text{C}}$	$V_{\text{CE}}$
			V	mA	MHz			mA	V

### AF Transistors

#### NPN Double Transistors (8 mm Tape)

BCV 61A	3k*	SP000010885	SOT143	30	200	250	110 ... 220	100	5
BCV 61B	3k*	SP000010886	SOT143	30	200	250	200 ... 450	100	5
BCV 61C	3k*	SP000010887	SOT143	30	200	250	420 ... 800	100	5

#### PNP Double Transistors (8 mm Tape)

■ BCV 62A	3k*	SP000010889	SOT143	30	200	250	125 ... 220	100	5
BCV 62B	3k*	SP000010890	SOT143	30	200	250	220 ... 475	100	5
BCV 62B	10k*	SP000010893	SOT143	30	200	250	220 ... 475	100	5
BCV 62C	3k*	SP000010891	SOT143	30	200	250	420 ... 800	100	5

#### Dual Transistor Arrays NPN/PNP (8 mm Tape)

BC 817UPN	3k*	SP000012398	SC74	45	1000	170	160 ... 400	100	1
▼ BC 817UPN	10x3k*	SP000056357	SC74	45	1000	170	160 ... 400	100	1
BC 846PN	3k*	SP000010518	SOT363	65	200	250	200 ... 450	2	5
BC 846UPN	3k*	SP000012621	SC74	65	200	250	200 ... 450	2	5
BC 847PN	3k*	SP000010593	SOT363	45	200	250	110 ... 630	2	5
▼ BC 847PN	10x3k*	SP000056358	SOT363	45	200	250	110 ... 630	2	5
BC 847PN	10k*	SP000010594	SOT363	45	200	250	110 ... 630	2	5
SMBT 3904PN	3k*	SP000014740	SOT363	40	200	250	100 ... 300	10	1
SMBT 3904UPN	3k*	SP000012617	SC74	40	200	250	100 ... 300	10	1
SMBTA 06UPN	3k*	SP000012393	SC74	80	500	100	≥100	10	1

#### Dual Transistor Arrays NPN (8 mm Tape)

BC 817U	3k*	SP000012394	SC74	45	1000	170	160 ... 400	100	1
BC 846S	3k*	SP000010521	SOT363	65	200	250	200 ... 450	2	5
BC 846S	10k*	SP000010522	SOT363	65	200	250	200 ... 450	2	5
BC 846U	3k*	SP000012619	SC74	65	100	250	200 ... 450	2	5
BC 847S	3k*	SP000010598	SOT363	45	200	250	110 ... 630	2	5
BC 847S	10k*	SP000010599	SOT363	45	200	250	110 ... 630	2	5
BCM 846S	3k*	SP000013958	SOT363	65	200	250	200 ... 650	2	5
SMBT 3904S	3k*	SP000014737	SOT363	40	200	250	100 ... 300	10	1
SMBT 3904U	3k*	SP000012615	SC74	40	200	300	100 ... 300	10	1

#### Dual Transistor Arrays PNP (8 mm Tape)

BC 807U	3k*	SP000012395	SC74	45	500	200	160 ... 400	100	1
BC 856S	3k*	SP000012942	SOT363	65	200	250	200 ... 475	2	5
▼ BC 856S	10k*	SP000012941	SOT363	65	200	250	200 ... 475	2	5
BC 856U	3k*	SP000012620	SC74	65	100	250	200 ... 650	2	5
BC 857S	3k*	SP000010666	SOT363	45	200	250	200 ... 630	2	5
BC 857S	10k*	SP000010667	SOT363	45	200	250	200 ... 630	2	5
BCM 856S	3k*	SP000014127	SOT363	65	200	250	200 ... 450	2	5
SMBT 3906S	3k*	SP000016694	SOT363	40	200	250	100 ... 300	10	1
SMBT 3906U	3k*	SP000012616	SC74	40	200	250	100 ... 300	10	1

\* Order unit

SMD = Surface Mounted Device





# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )			
			$V_R$ V	$I_F$ mA	$C_T$ pF	at $V_R$ V	$r_f$ $\Omega$	at $I_F$ mA

## RF Diodes

### Switch Diodes (8 mm Tape)

BAR 81W	3k*	SP000010192	SOT343	30	100	0.60	1	0.70	5
BAT 18-04	3k*	SP000010290	SOT23	35	100	0.92	1	0.40	5
BAT 18-05	3k*	SP000010291	SOT23	35	100	0.92	1	0.40	5

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
			$V_R$ V	$I_F$ mA	$V_F$ mV	at $I_F$ mA	

### Schottky Diodes (8 mm Tape)

BAS 125-04W (Dual)	3k*	SP000012255	SOT323	25	100	385	1
BAS 125-05W (Dual)	3k*	SP000012256	SOT323	25	100	385	1
BAS 125-06W (Dual)	3k*	SP000012257	SOT323	25	100	385	1
BAS 125-07W (Dual)	3k*	SP000010198	SOT343	25	100	385	1
BAT 15-02LRH	15k*	SP000055124	TSLP-2-7	4	110	230	1
BAT 15-03W	3k*	SP000010272	SOD323	4	110	230	1
BAT 15-04W (Dual)	3k*	SP000012598	SOT323	4	110	230	1
BAT 15-05W (Dual)	3k*	SP000012597	SOT323	4	110	230	1
BAT 15-07LRH	15k*	SP000055813	TSLP-4-7	4	110	230	1
BAT 15-098LRH	15k*	SP000055342	TSLP-4-7	4	110	230	1
BAT 15-099 (Dual)	3k*	SP000010273	SOT143	4	110	230	1
BAT 15-099 (Dual)	10k*	SP000010275	SOT143	4	110	230	1
BAT 15-099LRH	15k*	SP000055343	TSLP-4-7	4	110	230	1
BAT 15-099R (Quad)	3k*	SP000010276	SOT143	—	110	230	1
BAT 17	3k*	SP000010280	SOT23	4	130	340	0.1
BAT 17-04 (Dual)	3k*	SP000010283	SOT23	4	130	340	0.1
BAT 17-04W (Dual)	3k*	SP000012242	SOT323	4	130	340	1
BAT 17-05 (Dual)	3k*	SP000010285	SOT23	4	130	340	0.1
BAT 17-05W (Dual)	3k*	SP000012243	SOT323	4	130	340	1
BAT 17-06W (Dual)	3k*	SP000012244	SOT323	4	130	340	1
BAT 17-07 (Dual)	3k*	SP000010289	SOT143	4	130	350	0.1
BAT 60A	3k*	SP000010294	SOD323	10	3000	120	10
BAT 60B	3k*	SP000010296	SOD323	10	3000	240	10
BAT 60B	10k*	SP000010297	SOD323	10	3000	240	10
BAT 68	3k*	SP000012514	SOT23	8	130	320	1
BAT 68-04 (Dual)	3k*	SP000010320	SOT23	8	130	320	1
BAT 68-04W (Dual)	3k*	SP000012246	SOT323	8	130	320	1
BAT 68-06 (Dual)	3k*	SP000010322	SOT23	8	130	320	1
BAT 68-06W (Dual)	3k*	SP000012245	SOT323	8	130	320	1
BAT 68-07W (Dual)	3k*	SP000010324	SOT343	8	130	320	1

\* Order unit

SMD = Surface Mounted Device

# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
			$V_R$	$I_F$	$V_F$	at	$I_F$
			V	mA	mV		mA

## RF Diodes

### Schottky-Detector Diodes (8 mm Tape)

BAT 62	3k*	SP000010300	SOT143	40	20	580	2
BAT 62-02L	3k*	SP000016963	TSLP-2-1	40	20	580	2
BAT 62-02W	3k*	SP000010301	SCD80	40	20	580	2
BAT 62-03W	3k*	SP000010303	SOD323	40	20	580	2
BAT 62-07L4 (Dual)	15k*	SP000013970	TSLP-4-4	40	20	580	2
▼ BAT 62-07L4 (Dual)	50k*	SP000077202	TSLP-4-4	40	20	580	2
BAT 62-07W (Dual)	3k*	SP000010304	SOT -343	40	20	580	2
BAT 62-09S (Dual)	3k*	SP000055207	SOT363	40	20	580	2
BAT 63-07W	3k*	SP000010306	SOT343	3	100	190	1

### Schottky Diodes Arrays

BAT 68-08S	3k*	SP000012460	SOT363	8	130	318	1
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Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )					
			$V_{R \text{ max}}$	$I_{F \text{ max}}$	$C_T$	at	$V_R$	$r_F$	at	$I_F$
			V	mA	pF		V	$\Omega$		mA

### PIN Diodes (8 mm Tape)

BA 592	3k*	SP000010141	SOD323	35	100	0.85	3	0.36	10
BA 592	10k*	SP000010142	SOD323	35	100	0.85	3	0.36	10
■ BA 595	3k*	SP000010146	SOD323	50	50	0.26	10	5.00	10
▼ BA 595	10x3k*	SP000095921	SOD323	50	50	0.26	10	5.00	10
BA 595	10k*	SP000010148	SOD323	50	50	0.26	10	5.00	10
BA 885	3k*	SP000010151	SOT23	50	100	0.28	10	5.00	10
■ BA 892	3k*	SP000010154	SCD80	35	100	0.85	3	0.36	10
▼ BA 892	8k*	SP000104705	SCD80	35	100	0.85	3	0.36	10
BA 892	10k*	SP000010158	SCD80	35	100	0.85	3	0.36	10
BA 892-02L	15k*	SP000013535	TSLP-2-1	35	100	0.92	1	0.36	10
BA 892-02V	3k*	SP000013174	SC79	35	100	0.85	3	0.36	10
▼ BA 892-02V	8k*	SP000104706	SC79	35	100	0.85	3	0.36	10
▼ BA 892-02V	10k*	SP000013175	SC79	35	100	0.85	3	0.36	10
BA 895	3k*	SP000012458	SCD80	50	50	0.23	10	4.50	10
BAR 14-1 (Dual)	3k*	SP000010164	SOT23	100	140	0.25	50	7.00	10
BAR 15-1 (Dual)	3k*	SP000010163	SOT23	100	140	0.25	50	7.00	10
BAR 16-1 (Dual)	3k*	SP000010165	SOT23	100	140	0.25	50	7.00	10
BAR 50-02L	15k*	SP000013603	TSLP-2-1	50	100	0.24	1	3.00	10
BAR 50-02V	3k*	SP000012921	SC79	50	100	0.24	1	3.00	10
BAR 61 (Triple)	3k*	SP000010169	SOT143	100	140	0.25	50	7.00	10
BAR 63-02L	15k*	SP000013537	TSLP-2-1	50	100	0.21	5	1.00	10
▼ BAR 63-02L	50k*	SP000013538	TSLP-2-1	50	100	0.21	5	1.00	10
BAR 63-02V	3k*	SP000010162	SC79	50	100	0.21	5	1.00	10

\* Order unit

SMD = Surface Mounted Device

# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )					
			$V_{R \text{ max}}$	$I_{F \text{ max}}$	$C_T$	at	$V_R$	$r_F$	at	$I_F$
			V	mA	pF		V	$\Omega$		mA

## RF Diodes

### PIN Diodes (8 mm Tape)

(cont'd)

BAR 63-02W	3k*	SP000010170	SCD80	50	100	0.21	5	1.00	10
▼ BAR 63-02W	8k*	SP000104697	SCD80	50	100	0.21	5	1.00	10
BAR 63-02W	10k*	SP000010171	SCD80	50	100	0.21	5	1.00	10
BAR 63-03W (Dual)	3k*	SP000010172	SOD323	50	100	0.21	5	1.00	10
BAR 63-03W (Dual)	10k*	SP000010173	SOD323	50	100	0.21	5	1.00	10
BAR 63-04 (Dual)	3k*	SP000012206	SOT23	50	100	0.21	5	1.00	10
BAR 63-04W (Dual)	3k*	SP000010174	SOT323	50	100	0.21	5	1.00	10
BAR 63-05 (Dual)	3k*	SP000012207	SOT23	50	100	0.21	5	1.00	10
BAR 63-05 (Dual)	10k*	SP000012210	SOT23	50	100	0.21	5	1.00	10
BAR 63-05W (Dual)	3k*	SP000010175	SOT323	50	100	0.21	5	1.00	10
BAR 63-06 (Dual)	3k*	SP000012208	SOT23	50	100	0.21	5	1.10	10
BAR 63-06W (Dual)	3k*	SP000010176	SOT323	50	100	0.21	5	1.00	10
BAR 64-02LRH	15k*	SP000051041	TSLP-2-7	200	100	0.23	20	2.10	10
▼ BAR 64-02LRH	50k*	SP000083331	TSLP-2-7	200	100	0.23	20	2.10	10
BAR 64-02V	3k*	SP000010361	SC79	200	100	0.23	20	2.10	10
▼ BAR 64-02V	8k*	SP000104696	SC79	200	100	0.23	20	2.10	10
BAR 64-03W	3k*	SP000010179	SOD323	200	100	0.23	20	2.10	10
BAR 64-04 (Dual)	3k*	SP000012211	SOT23	200	100	0.23	20	2.10	10
BAR 64-04W (Dual)	3k*	SP000010180	SOT323	150	100	0.23	20	2.10	10
BAR 64-05 (Dual)	3k*	SP000012212	SOT23	200	100	0.23	20	2.10	10
BAR 64-05 (Dual)	10k*	SP000012214	SOT23	200	100	0.23	20	2.10	10
BAR 64-05W (Dual)	3k*	SP000010181	SOT323	200	100	0.23	20	2.10	10
BAR 64-05W (Dual)	10k*	SP000010183	SOT323	200	100	0.23	20	2.10	10
BAR 64-06 (Dual)	3k*	SP000012213	SOT23	200	100	0.23	20	2.10	10
BAR 64-06W (Dual)	3k*	SP000010182	SOT323	150	100	0.23	20	2.10	10
BAR 64-07 (Dual)	3k*	SP000010184	SOT143	200	100	0.23	20	2.10	10
BAR 65-02L	15k*	SP000013542	TSLP-2-1	30	100	0.60	1	0.56	10
BAR 65-02V	3k*	SP000010359	SC79	30	100	0.60	1	0.56	10
BAR 65-03W	3k*	SP000010186	SOD323	30	100	0.60	1	0.56	10
BAR 67-02V	3k*	SP000010369	SC79	150	200	0.35	5	1.10	10
BAR 88-02V	3k*	SP000013484	SC79	80	100	0.30	1	0.80	10
▼ BAR 88-02V	8k*	SP000104695	SC79	80	100	0.30	1	0.80	10
BAR 88-02LRH	15k*	SP000051042	TSLP-2-7	80	100	0.30	1	0.80	10
▼ BAR 88-02LRH	50k*	SP000083408	TSLP-2-7	80	100	0.30	1	0.80	10
▼ BAR 88-07LRH (Dual)	15k*	SP000053489	TSLP-4-7	80	100	0.30	1	0.80	10
▼ BAR 88-098LRH (Dual)	15k*	SP000053490	TSLP-4-7	80	100	0.30	1	0.80	10
▼ BAR 88-099LRH	15k*	SP000053491	TSLP-4-7	80	100	0.30	1	0.80	10
BAR 89-02LRH	15k*	SP000051043	TSLP-2-7	80	100	0.25	1	0.80	10
▼ BAR 89-02LRH	50k*	SP000083407	TSLP-2-7	80	100	0.25	1	0.80	10
BAR 90-02LRH	15k*	SP000051045	TSLP-2-7	80	100	0.25	1	0.80	10
▼ BAR 90-02LS	15k*	SP000200323	TSSLP-2-1	80	100	0.25	1	0.80	10
BAR 90-07LRH (Dual)	15k*	SP000053483	TSLP-4-7	80	100	0.25	1	0.80	10
▼ BAR 90-098LRH (Dual)	15k*	SP000053484	TSLP-4-7	80	100	0.25	1	0.80	10
▼ BAR 90-098L4 (Dual)	15k*	SP000062626	TSLP-4-4	80	100	0.25	1	0.80	10
BAR 90-099LRH	15k*	SP000053485	TSLP-4-7	80	100	0.25	1	0.80	10
▼ BAR 95-02LS	15k*	SP000099220	TSSLP-2-1	50	100	0.25	1	0.80	10

\* Order unit

SMD = Surface Mounted Device

# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
			$V_R$ V	$I_F$ mA	$C_T$ pF	at V	$C_{T1}/C_{T2}$

## RF Diodes

### Variable Capacitance Diodes (8 mm Tape)

BB 439 matched	3k*	SP000010372	SOD323	30	20	26 ... 32	3	5 ... 6.5
BB 535 matched	3k*	SP000010375	SOD323	30	20	17.5 ... 20	1	8.2 ... 9.8
BB 535 unmatched	3k*	SP000010377	SOD323	30	20	17.5 ... 20	1	8.2 ... 9.8
BB 545 matched	3k*	SP000010383	SOD323	30	20	18.5 ... 21.5	1	9 ... 11
BB 545 unmatched	3k*	SP000010384	SOD323	30	20	18.5 ... 21.5	1	9 ... 11
BB 555 matched	3k*	SP000010389	SCD80	30	20	17.5 ... 20	1	6.7
BB 555 unmatched	3k*	SP000010390	SCD80	30	20	17.5 ... 20	1	6.7
BB 555-02V matched	3k*	SP000013176	SC79	30	20	17.5 ... 20	1	8.2 ... 9.8
BB 555-02V unmatched	3k*	SP000013177	SC79	30	20	17.5 ... 20	1	8.2 ... 9.8
BB 565 matched	3k*	SP000010393	SCD80	30	20	18.5 ... 21.5	1	7.2
BB 565 unmatched		SP000010392	SCD80	30	20	18.5 ... 21.5	1	7.2
BB 565-02V matched	3k*	SP000013416	SC79	30	20	18.5 ... 21.5	1	9 ... 11
BB 639 matched	3k*	SP000010401	SOD323	30	20	36 ... 42	1	13.5
BB 639 unmatched	3k*	SP000010403	SOD323	30	20	36 ... 42	1	13.5
BB 639C matched	3k*	SP000010396	SOD323	30	20	36 ... 42	1	11.1
BB 640 matched	3k*	SP000010406	SOD323	30	20	62 ... 76	1	19.5
BB 644 matched	3k*	SP000010411	SOD323	30	20	39 ... 44.5	1	11.8
▼ BB 659 matched	3k*	SP000056645	SCD 80	30	20	36 ... 40	1	14.7
▼ BB 659 unmatched	3k*	SP000010414	SCD 80	30	20	36 ... 40	1	14.7
BB 659C matched	3k*	SP000010417	SCD80	30	20	36 ... 42	1	11.1
BB 659C-02V matched	3k*	SP000013179	SC79	30	20	36.5 ... 42	1	9.5 ... 11.1
BB 659C-02V unmatched	3k*	SP000013180	SC79	30	20	36.5 ... 42	1	9.5 ... 11.1
BB 664 matched	3k*	SP000010418	SCD80	30	20	39 ... 44.5	1	11.8
BB 664-02V matched	3k*	SP000013418	SC79	30	20	39 ... 44.5	1	11.8
BB 669 matched	3k*	SP000010419	SOD323	30	20	51 ... 61.5	1	15.5
BB 689 matched	3k*	SP000010423	SCD80	30	20	51 ... 61.5	1	15.5
BB 689 unmatched	3k*	SP000010422	SCD80	30	20	51 ... 61.5	1	15.5
BB 689-02V matched	3k*	SP000013414	SC79	30	20	51 ... 61.5	1	15.5
BB 689-02V unmatched	3k*	SP000013415	SC79	30	20	51 ... 61.5	1	15.5
BB 804SF1 (Dual)	3k*	SP000010425	SOT23	20	50	43.0 ... 44.5	2	1.70
■ BB 804SF2 (Dual)	3k*	SP000010426	SOT23	20	50	44.0 ... 45.5	2	1.70
■ BB 804SF3 (Dual)	3k*	SP000010427	SOT23	20	50	45.0 ... 46.5	2	1.70
■ BB 814GR1 (Dual)	3k*	SP000010433	SOT23	20	50	43.0 ... 44.5	2	2.05 ... 2.25
▼ BB 814GR1 (Dual)	3k*	SP000095920	SOT23	20	50	43.0 ... 44.5	2	2.05 ... 2.25
BB 814GR1 (Dual)	10k*	SP000051040	SOT23	20	50	43.0 ... 44.5	2	2.05 ... 2.25
BB 814GR2 (Dual)	3k*	SP000010435	SOT23	20	50	45.0 ... 46.5	2	2.05 ... 2.25
BB 831	3k*	SP000012250	SOD323	30	20	7.8 ... 9.8	1	8.60
BB 833	3k*	SP000010437	SOD323	30	20	8.5 ... 10	1	12.40
BB 833	10k*	SP000010438	SOD323	30	20	8.5 ... 10	1	12.40
BB 837	3k*	SP000010441	SOD323	30	20	6.0 ... 7.2	1	12.20
BB 844	3k*	SP000013388	SOT23	18	50	42.5 ... 45	2	3.2 ... 3.8
BB 857 matched	3k*	SP000010443	SCD80	30	20	6.0 ... 7.2	1	12.00
BB 914 (Dual)	3k*	SP000010445	SOT23	20	50	42.5 ... 45	2	2.28 ... 2.42

\* Order unit

SMD = Surface Mounted Device

# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )	
			$V_R$ V	$I_F$ mA	$C_T$ pF	at $V_R$ V

## RF Diodes

### Electrostatic Discharge Protection Diodes

BAR 66	SP000010187	SOT23	150	200	$\leq 0.60$	35
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Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )	
			$V_{Rwm}$ V	$I_{pp}$ A	$C_T$ pF	at $V_R$ V

## Transient Voltage Suppressor (TVS) Diodes

### 1-Channel ESD Protection

▼ ESD 5V02S1U-03W	3k*	SP000205608	SOD323	5	30	430	0
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### 2-Channel ESD Protection

▼ ESD 5V02S1U-06	3k*	SP000205610	SOT23	5	30	430	0
▼ ESD 8V0L2B-03L	3k*	SP000055122	TSLP-3-1	8 ... 14	1	4 ... 0	0

### 5-Channel ESD Protection

▼ ESD 5V02S1US	3k*	SP000205611	SOT363	5	6	70	0
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\* Order unit

SMD = Surface Mounted Device



# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )			
			$V_R$ V	$I_F$ mA	$C_T$ pF	at V	$C_{T1}/C_{T2}$	
<b>RF Diodes</b>								
<b>Varactor Diodes</b>								
BBY 51	3k*	SP000010449	SOT23	7	20	4.5 ... 6.1	1	1.75
BBY 51	10k*	SP000010451	SOT23	7	20	4.5 ... 6.1	1	1.75
BBY 51-02L	15k*	SP000014590	TSLP-2-1	7	20	4.5 ... 6.1	1	1.75
BBY 51-02W	3k*	SP000010452	SCD80	7	20	4.5 ... 6.1	1	1.75
BBY 51-03W	3k*	SP000010453	SOD323	7	20	4.5 ... 6.1	1	1.75
BBY 52-02L	15k*	SP000014591	TSLP-2-1	7	20	1.4 ... 2.2	1	1.60
BBY 52-02W	3k*	SP000010454	SCD80	7	20	1.4 ... 2.2	1	1.60
BBY 53	3k*	SP000010455	SOT23	6	20	4.8 ... 5.8	1	2.20
BBY 53-02L	15k*	SP000014592	TSLP-2-1	6	20	4.8 ... 5.8	1	2.20
BBY 53-02V	3k*	SP000010337	SC79	6	20	4.8 ... 5.8	1	2.20
BBY 53-02W	3k*	SP000010459	SCD80	6	20	4.8 ... 5.8	1	2.20
BBY 53-03LRH	15k*	SP000083405	TSLP-3-7	6	20	4.8 ... 5.8	1	2.20
BBY 53-03W	3k*	SP000010461	SOD323	6	20	4.8 ... 5.8	1	2.20
BBY 53-05W	3k*	SP000012248	SOT323	6	20	4.8 ... 5.8	1	2.20
BBY 55-02V	3k*	SP000013069	SC79	16	20	14.0 ... 16	1	2.50
BBY 55-02W	3k*	SP000012232	SCD80	16	20	14.0 ... 16	1	2.50
BBY 55-03W	3k*	SP000012238	SOD323	16	20	14.0 ... 16	1	2.50
BBY 56-02W	3k*	SP000012233	SCD80	10	20	59.0 ... 67	1	2.45
▼ BBY 56-02W	8k*	SP000104694	SCD80	10	20	59.0 ... 67	1	2.45
BBY 56-03W	3k*	SP000012239	SOD323	10	20	59.0 ... 67	1	2.45
BBY 57-02V	3k*	SP000010317	SC79	10	20	16.5 ... 18.6	1	2.45
BBY 57-02L	15k*	SP000013551	TSLP-2-1	10	20	16.5 ... 18.6	1	2.45
BBY 57-02W	3k*	SP000012234	SCD80	10	20	16.5 ... 18.6	1	2.45
▼ BBY 57-02W	8k*	SP000104693	SCD80	10	20	16.5 ... 18.6	1	2.45
■ BBY 57-05W	3k*	SP000012457	SOT323	10	20	16.5 ... 18.6	1	2.45
BBY 58-02L	15k*	SP000013552	TSLP-2-1	8	50	17.5 ... 19.3	1	3.00
BBY 58-02V	3k*	SP000012231	SC79	10	20	17.5 ... 19.3	1	2.15
BBY 58-02W	3k*	SP000012235	SCD80	10	20	17.5 ... 19.3	1	2.15
▼ BBY 58-02W	8k*	SP000104692	SCD80	10	20	17.5 ... 19.3	1	2.15
BBY 58-03W	3k*	SP000012240	SOD323	10	20	17.5 ... 19.3	1	2.15
BBY 58-05W	3k*	SP000014603	SOT323	10	20	17.5 ... 19.3	1	2.15
BBY 58-06W	3k*	SP000014605	SOT323	10	20	17.5 ... 19.3	1	2.15
BBY 59-02V	3k*	SP000012825	SC79	15	50	26.6 ... 29.0	1	4.00
▼ BBY 61-02LS	3k*	SP000200324	TSSLP-2-1	10	50	4.9	1	2.45
BBY 65-02V	3k*	SP000013604	SC79	15	50	20.25	1	4.55
BBY 66-05	3k*	SP000012826	SOT23	12	50	66.0 ... 71.5	1	5.41
BBY 66-05W	3k*	SP000012827	SOT323	12	50	66.0 ... 71.5	1	5.41

\* Order unit

SMD = Surface Mounted Device



# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings				Characteristics ( $T_A = 25^\circ\text{C}$ )					
			$V_{DS}$	$I_D$	$P_{tot}$	$G_{ps}$	$F$ at $V_{DS}$	$I_D$	$f$	$g_{fs}$		
			V	mA	mW	dB	dB	V	mA	MHz	mS	

## RF Transistors

### Single MOSFET Tetrodes (8 mm Tape)

BF 998	3k*	SP000010978	SOT143	12	30	200	20	1.00	8	10	800	24
BF 998R	3k*	SP000010979	SOT143R	12	30	200	20	1.00	8	10	800	24
BF 1005	3k*	SP000010946	SOT143	8	25	200	18	1.40	5	10	800	24
BF 1005S	3k*	SP000010949	SOT143	8	25	200	19	1.60	5	12	800	30
BF 1005S	10k*	SP000010952	SOT143	8	25	200	19	1.60	5	12	800	30
BF 1005SR	3k*	SP000010950	SOT143R	8	25	200	19	1.60	5	12	800	30
BF 1009S	3k*	SP000010955	SOT143	12	25	200	22	1.40	9	12	800	30
BF 1009SR	3k*	SP000010956	SOT143R	12	25	200	22	1.40	9	12	800	30
BF 2030 E-6814	3k*	SP000012219	SOT143	14	40	200	-	2.0	5	10	800	31
BF 2030R E-6814	3k*	SP000012220	SOT143R	14	40	200	-	2.0	5	10	800	31
BF 2030W E-6814	3k*	SP000012223	SOT343	14	40	200	-	2.0	5	10	800	31
BF 2040 E-6814	3k*	SP000012215	SOT143	8	20	200	21	1.7	5	15	800	45
BF 2040R E-6814	3k*	SP000012216	SOT143R	8	20	200	21	1.7	5	15	800	45
BF 2040W E-6814	3k*	SP000012226	SOT343	8	20	200	23	1.6	5	15	800	45
▼ BF 5030W	3k*	SP0000101236	SOT343	8	25	200	24	1.3	3	10	800	41

### Dual MOSFET Tetrodes (8 mm Tape)

■ BG 3123	3k*	SP000014846	SOT363	8	25	160	24	1.30	5	10	800	25/30
BG 3123R	3k*	SP000015126	SOT363	8	25	160	24	1.30	5	10	800	25/30
BG 3130	3k*	SP000013182	SOT363	8	25	160	24	1.30	5	10	800	33/33
BG 3130R	3k*	SP000014450	SOT363	8	25	160	24	1.30	5	10	800	33/33
BG 3140	3k*	SP000013183	SOT363	8	25	160	24	1.30	5	15	800	42
BG 3140R	3k*	SP000014451	SOT363	8	25	160	24	1.30	5	15	800	42
BG 3230	3k*	SP000013594	SOT363	8	25	160	24	1.30	5	10	800	33
■ BG 3230R	3k*	SP000014452	SOT363	8	25	160	24	1.30	5	10	800	33
▼ BG 5130R	3k*	SP0000101237	SOT363	8	25	200	24	1.30	3	10	800	41

### MOSFET Triodes (8 mm Tape)

BF 999	3k*	SP000010985	SOT23	20	30	200	25	1.00	10	10	200	16
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\* Order unit

SMD = Surface Mounted Device



# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
			$V_{\text{CEO}}$ V	$I_{\text{C}}$ mA	$f_{\text{T}}$ GHz	$G$ dB	at $f$ MHz

## RF Transistors

### NPN Broadband Transistors (8 mm Tape)

BF 517	3k*	SP000010958	SOT23	15	25	2.0	–	–
BF 770A	3k*	SP000010965	SOT23	12	50	5.5	13.5	800
BF 771	3k*	SP000010967	SOT23	12	80	7.0	13.5	800
BF 775	3k*	SP000010972	SOT23	12	30	4.5	–	–
BF 799	3k*	SP000010973	SOT23	20	35	1.1	–	–
BF 799W	3k*	SP000010975	SOT323	20	35	1.1	–	–
BFP 181	3k*	SP000011013	SOT143	12	20	8.0	20	900
BFP 182	3k*	SP000011015	SOT143	12	35	8.0	21.5	900
BFP 182R	3k*	SP000011016	SOT143R	12	35	8.0	21.5	900
BFP 182W	3k*	SP000011017	SOT343	12	35	8.0	21.5	900
BFP 183	3k*	SP000011018	SOT143	12	65	8.0	20	900
BFP 183W	3k*	SP000011023	SOT343	12	65	8.0	20	900
BFP 193	3k*	SP000011024	SOT143	12	80	8.0	15	800
BFP 193W	3k*	SP000011026	SOT343	12	80	8.0	20	800
BFP 196	3k*	SP000011027	SOT143	12	100	7.2	16	900
BFP 196R	3k*	SP000011028	SOT143R	12	100	7.2	16	900
BFP 196W	3k*	SP000011030	SOT343	12	100	7.2	16	900
BFR 35AP	3k*	SP000011060	SOT23	12	30	4.9	14	800
BFR 92P	3k*	SP000011062	SOT23	15	30	5.0	15	900
BFR 92W	3k*	SP000011065	SOT323	15	30	5.0	15.5	900
BFR 93A	3k*	SP000011066	SOT23	12	50	6.0	13.5	900
BFR 93AW	3k*	SP000011071	SOT323	12	50	6.0	15	900
BFR 106	3k*	SP000011044	SOT23	15	100	4.9	17.8	500
BFR 181	3k*	SP000011047	SOT23	12	20	8.0	18	900
BFR 181 E-6780	3k*	SP000011049	SOT23	12	20	8.0	18	900
BFR 181T	3k*	SP000013378	SC75	12	20	8.0	18	900
BFR 181W	3k*	SP000011050	SOT323	12	20	8.0	18	900
BFR 182	3k*	SP000011051	SOT23	12	35	8.0	18	900
▼ BFR 182	10x3k*	SP000056362	SOT23	12	35	8.0	18	900
BFR 182T	3k*	SP000012913	SC75	12	35	8.0	18	900
BFR 182W	3k*	SP000011053	SOT323	12	35	8.0	18	900
BFR 183	3k*	SP000011054	SOT23	12	65	8.0	18.5	900
BFR 183T	3k*	SP000012600	SC75	12	65	8.0	18.5	900
BFR 183W	3k*	SP000011055	SOT323	12	65	8.0	18.5	900
BFR 193	3k*	SP000011056	SOT23	12	80	8.0	15.8	800
BFR 193F	3k*	SP000012976	TSFP-3	12	150	8.0	19.0	900
BFR 193L3	3k*	SP000013557	TSLP-3-1	12	150	8.0	19.0	900
BFR 193W	3k*	SP000011057	SOT323	12	80	8.0	15.8	800

\* Order unit

SMD = Surface Mounted Device



# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
			$V_{\text{CEO}}$ V	$I_{\text{C}}$ mA	$f_{\text{T}}$ GHz	$G$ dB	at $f$ MHz

## RF Transistors

### NPN Broadband Transistors (8 mm Tape)

(cont'd)

BFR 340F	15k*	SP000012978	TSFP-3	6.0	10	14.0	16.0	1800
BFR 340L3	15k*	SP000013558	TSLP-3-1	6.0	10	14.0	17	1800
BFR 340T	3k*	SP000012982	SC75	6.0	10	14.0	15	1800
BFR 360F	15k*	SP000012979	TSFP-3	6.0	35	14.0	15.5	1800
BFR 360L3	15k*	SP000013560	TSLP-3-1	6.0	35	14.0	16.5	1800
BFR 360T	3k*	SP000012983	SC75	6.0	35	14.0	13.5	1800
BFR 380F	15k*	SP000012981	TSFP-3	6.0	80	14.0	13.5	1800
BFR 380L3	15k*	SP000013562	TSLP-3-1	6.0	80	14.0	13.5	1800
BFR 380T	3k*	SP000012984	SC75	6.0	80	14.0	12.5	1800
BFR 460L3	15k*	SP000014238	TSLP-3-1	4.5	50	22.0	16	1800
BFR 949L3	15k*	SP000013563	TSLP-3-1	10	35	9.0	21.5	900
BFR 949T	3k*	SP000012972	SC75	10	35	9.0	20	900
BFS 17P	3k*	SP000011073	SOT23	15	25	2.5	10	800
BFS 17P	10k*	SP000011079	SOT23	15	25	2.5	10	800
BFS 17W	3k*	SP000011082	SOT323	15	25	2.5	11	800
BFS 360L6	15k*	SP000013974	TSLP-6-1	6	35	14.0	14.5	1800
BFS 380L6	15k*	SP000013976	TSLP-6-1	6	80	14.0	12	1800
BFS 386L6	15k*	SP000013975	TSLP-6-1	6	35/80	14.0	14.5	1800

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\* Order unit

SMD = Surface Mounted Device

# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
			$V_{\text{CEO}}$ V	$I_c$ mA	$f_T$ GHz	$G$ dB	at $f$ MHz

## RF Transistors

### NPN Broadband Transistors (12 mm Tape)

BFG 19S	1k*	SP000010992	SOT223	15	100	5.3	13	900
BFG 135A	1k*	SP000010991	SOT223	15	150	5.9	15	900
BFG 193	4k*	SP000010994	SOT223	12	80	8.0	15.5	900
BFG 196	1k*	SP000010995	SOT223	12	100	7.2	14	900
BFG 235	1k*	SP000010996	SOT223	12	300	6.0	–	–
BFQ 19S	1k*	SP000011042	SOT89	15	75	5.1	11.8	800

### PNP Broadband Transistors (8 mm Tape)

■ BFT 92	3k*	SP000011087	SOT23	15	25	5.0	18	500
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Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
			$I_D$ mA	$P_{\text{tot}}$ mW	$NF$ dB	$G$ dB	at $f$ MHz

## Monolithic ICs

### MMICs Low Noise Amplifiers

■ BGA 428	3k*	SP000012971	SOT363	12	50	1.4	20	1800
▼ BGA 615L7	7.5k*	SP000016766	TSLP-7-1	10	36	0.9	18	1500
BGA 619	7.5k*	SP000014629	TSLP-7-1	11	–	1.5	15	1900
■ BGA 622	3k*	SP000013748	SOT343	10	35	1.1	13.3	2140
BGA 622L7	7.5k*	SP000017535	TSLP-7-1	10	35	1.0	17.5	1575

### MMICs Broadband Amplifiers

BGA 416	3k*	SP000013607	SOT143	20	–	1.3	23	900
■ BGA 420	3k*	SP000011089	SOT143	15	90	2.2	13	1800
BGA 427	3k*	SP000011091	SOT343	25	150	2.2	18.5	1800
BGA 612	3k*	SP000013391	SOT343	80	225	2.35	16	2000
BGA 614	3k*	SP000013392	SOT343	80	240	2.3	17	2000
BGA 616	3k*	SP000013393	SOT343	80	360	2.9	17.5	2000
BGB 420	3k*	SP000012230	SOT343	30	120	1.5	17.5	1800
BGB 540	3k*	SP000013194	SOT343	80	–	1.3 (5 mA)	19	1800

\* Order unit

SMD = Surface Mounted Device

# Silicon Discrete Components

Type	Ordering Code	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
			$V_{\text{CEO}}$ V	$I_{\text{C}}$ mA	$f_{\text{T}}$ GHz	$G_{\text{ms}}$ dB	at $f$ MHz

## RF Transistors

### SIEGET®-25-RF-Bipolar NPN Transistors

BFP 405	3k*	SP000011032	SOT343	4.5	12	25	22	1800
BFP 405	10k*	SP000011033	SOT343	4.5	12	25	22	1800
BFP 405F	15k*	SP000012985	TSFP-4	4.5	12	25	22	1800
■ BFP 420	3k*	SP000011035	SOT343	4.5	35	25	22	1800
BFP 420	10k*	SP000011036	SOT343	4.5	35	25	22	1800
BFP 420F	15k*	SP000012986	TSFP-4	4.5	35	25	22	1800
■ BFP 450	3k*	SP000011039	SOT343	4.5	100	24	14	1800

### ESD Hardenend RF-Bipolar NPN Transistors

BFP 460	3k*	SP000015119	SOT343	4.5	50	22	17.5	1800
▼ BFP 540ESD	3k*	SP000105377	SOT343	4.0	80	34	21	1800
BFS 460L6	15k*	SP000014239	TSLP-6-1	4.5	50	22	14.5	1800
BFS 466L6	15k*	SP000014240	TSLP-6-1	4.5	50	22	14.5	1800
BFS 469L6	15k*	SP000014241	TSLP-6-1	4.5	50	22	14.5	1800

### SIEGET®-45-RF-Bipolar NPN Transistors

BFP 520	3k*	SP000012229	SOT343	2.5	40	45	23	1800
BFP 520F	15k*	SP000012987	TSFP-4	2.5	40	45	23	1800
BFP 540	3k*	SP000012602	SOT343	4.5	80	29	21	1800
BFP 540F	15k*	SP000012988	TSFP-4	4.5	80	29	21	1800

### Silicon Germanium NPN Transistors

BFP 620 E-7764	3k*	SP000012604	SOT343	2.3	80	65	21.5	1800
BFP 620F E-7764	15k*	SP000012989	TSFP-4	2.3	80	65	21.5	1800
■ BFP 640	3k*	SP000012991	SOT343	4.0	50	40	24	1800
BFP 640F	3k*	SP000015118	TSFP-4	4.0	50	40	24	1800
BFP 650	3k*	SP000013932	SOT343	4.0	150	36	21.5	1800
BFP 740	3k*	SP000016424	SOT343	4.0	160	42	27.5	1800
BFP 740F	3k*	SP000055205	TSFP-4	4.0	160	42	27.5	1800
▼ BFP 740L3	3k*	SP000085183	TSFP-3-8	4.0	160	42	24	1800

### RF-Dual Transistor Arrays

BFS 17S	3k*	SP000011081	SOT363	15	25	2.5	11	800
BFS 481	3k*	SP000011084	SOT363	12	20	8	19	900
BFS 483	3k*	SP000011086	SOT363	12	65	8	19	900

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## Sensors

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# Sensors

Type	Ordering Code	Package	Data			
			Pressure Range	$P_{max}$	$V_s$	Operating Temperature Range
			kPa	kPa	V	°C

## Absolute Barometric Pressure Sensor IC

KP125	SP000076563	PG-DSOF-8-12	40 ... 150	240	4.50 ... 5.50	-40 ... +125
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## Absolute Pressure Sensor IC

▼ SP12	SP000014795	P-DSOSP-14-1	100 ... 450	± 8.5	1.80 ... 3.60	-40 ... +125
▼ SP12 T-T1	SP000014797	P-DSOSP-14-1	50 ... 1400	± 28	1.80 ... 3.60	-40 ... +125
▼ SP30 V2.1	SP000081558	P-DSOSP-14-6	100 ... 450	± 7.0	1.80 ... 3.60	-40 ... +125
▼ SP30 V4.1	SP000208318	PG-DSOSP-14-6	100 ... 450	± 7.0	1.80 ... 3.60	-40 ... +125

Type	Ordering Code	Package	Data				
			Basic Resistance $T_A = 25^\circ\text{C}$ $I_N = 1 \text{ mA}$	$I_{max}$ (25°C)	(Thermal time constant 0 – 63 %)		Operating Temperature Range
					in still air	in still oil	
			$\Omega$	mA	s	s	°C

## Silicon Temperature Sensors

KT 110	SP000011499	T0-92	2000 ± 60	5	11	1.5	-50 ... +150
KT 130	SP000013615	SOT23	2000 ± 60	5	7	1	-50 ... +150
KT 210	SP000011509	T0-92	1000 ± 30	7	11	1.5	-50 ... +150
KT 230	SP000011513	SOT23	1000 ± 30	7	7	1	-50 ... +150
KTY 11-5	SP000011496	T0-92	1970 ± 20	5	11	1.5	-50 ... +150
KTY 11-6	SP000011497	T0-92	2000 ± 20	5	11	1.5	-50 ... +150
KTY 11-7	SP000011498	T0-92	2030 ± 20	5	11	1.5	-50 ... +150
KTY 13-5	SP000013612	SOT23	1970 ± 20	5	7	1	-50 ... +150
KTY 13-6	SP000013613	SOT23	2000 ± 20	5	7	1	-50 ... +150
KTY 13-7	SP000013614	SOT23	2030 ± 20	5	7	1	-50 ... +150
KTY 21-5	SP000011506	T0-92	985 ± 10	7	40	4	-50 ... +150
KTY 21-6	SP000011507	T0-92	1000 ± 10	7	40	4	-50 ... +150
KTY 21-7	SP000011508	T0-92	1015 ± 10	7	40	4	-50 ... +150
KTY 23-5	SP000011510	SOT23	985 ± 10	7	7	1	-50 ... +150
KTY 23-6	SP000011511	SOT23	1000 ± 10	7	7	1	-50 ... +150
KTY 23-7	SP000011512	SOT23	1015 ± 10	7	7	1	-50 ... +150

SMD = Surface Mounted Device



# Sensors

Type	Ordering Code	Package	Description
<b>Hall ICs</b>			
TLE 4905L	SP000016544	PG-SSO-3-2	Unipolar Hall IC switch, tape & reel
TLE 4905L E-6433	SP000016545	PG-SSO-3-2	Unipolar Hall IC switch, AMMO-pack
TLE 4905G	SP000011869	SOT89	
TLE 4935L	SP000016376	PG-SSO-3-2	Bipolar Hall IC latch, AMMO-pack
TLE 4935G	SP000011877	SOT89	Bipolar Hall IC latch, tape & reel
TLE 4945L	SP000016546	PG-SSO-3-2	Bipolar Hall IC switch, AMMO-pack
TLE 4945-2L	SP000013154	PG-SSO-3-2	
TLE 4945-2G	SP000011879	SOT89	Bipolar Hall IC switch, tape & reel
TLE 4906L	SP000012949	PG-SSO-3-2	High precision unipolar Hall IC switch, AMMO-pack
TLE 4906H	SP000012950	SC59	High precision unipolar Hall IC switch, tape & reel
TLE 4966L	SP000014135	PG-SSO-4-1	High precision bipolar double Hall IC switch, AMMO-pack
TLE 4966H	SP000014532	TSOP6-1	High precision bipolar double Hall IC switch, tape & reel
TLE 4946H	SP000014640	SC59	High precision bipolar Hall IC latch, tape & reel
TLE 4946-1L	SP000015003	PG-SSO-3-2	High precision bipolar Hall IC latch, AMMO-pack
TLE 4976L	SP000012951	PG-SSO-3-2	High precision unipolar Hall IC switch with 2-wire interface, AMMO-pack
TLE 4976-1H	SP000014722	SC59	High precision unipolar Hall IC switch with 2-wire interface, tape & reel
TLE 4921-5U	SP000013593	PG-SSO-4-1	Dynamic differential Hall effect sensor IC, AMMO-pack
TLE 4923	SP000011875	PG-SSO-3-6	
TLE 4925	SP000013753	PG-SSO-3-6	Dynamic differential Hall effect sensor IC for crankshaft and transmission applications, AMMO-pack
TLE 4925C	SP000014169	PG-SSO-3-9	
▼ TLE 4925-HT	SP000018185	PG-SSO-6	
▼ TLE 4925C-HT E-6747	SP000076003	PG-SSO-9	
TLE 4913	SP000013490	SC59	Low power Hall IC switch for battery powered applications, tape & reel
TLE 4917	SP000013477	TSOP6-1	
TLE 4941	SP000015115	PG-SSO-2-1	Self calibrating differential Hall IC, two wire standard current interface, AMMO-pack
TLE 4941C	SP000015116	PG-SSO-2-2	Self calibrating differential Hall IC, two wire PWM current interface, AMMO-pack
TLE 4941-1	SP000014942	PG-SSO-2-1	
TLE 4941-1C	SP000014553	PG-SSO-2-2	Self calibrating differential Hall IC, two wire PWM current interface, air-gap diagnosis, assembly position diagnosis, detection of rotation direction, AMMO-pack
TLE 4942-1	SP000015067	PG-SSO-2-1	
TLE 4942-1C	SP000014552	PG-SSO-2-2	Self calibrating differential Hall IC, two wire PWM current interface, air-gap diagnosis, assembly position diagnosis, AMMO-pack
TLE 4953 C	SP000015141	PG-SSO2-2	Hall effect based transmission speed sensor IC with direction detection and vibration suppression, two wire PWM current interface, AMMO-pack
TLE 4990	SP000012542	PG-SSO-4-1	Preprogrammable linear output Hall effect IC, AMMO-pack
TLE 4990 E-6782	SP000014373	PG-SSO-4-1	
<b>Angular Rate Sensors</b>			
▼ SAR 10H	SP000236872	P-DSOSA-16-5	Micro-machined silicon angular sensor designed for automotive rollover detection and navigation support systems

SMD = Surface Mounted Device

## Sensors

Type	Ordering Code	Package	Description
<b>Wireless Control</b>			
▼ TDA 5102	SP000013431	P-TSSOP-16-1	ASK/FSK transceiver, 915 MHz, tape & reel
▼ TDA 5102	SP000013432	PG-TSSOP-16-1	ASK/FSK transceiver, 915 MHz, tape & reel
TDA 5200	SP000016381	P-TSSOP-28-1	ASK receiver, 433/868 MHz, tape & reel
TDA 5201	SP000012902	P-TSSOP-28-1	ASK receiver, 315/345 MHz, tape & reel
▼ TDA 5201	SP000087135	PG-TSSOP-28-1	ASK receiver, 315/345 MHz, tape & reel
TDA 5210	SP000016384	P-TSSOP-28-1	ASK/FSK receiver, 433/868 MHz, tape & reel
▼ TDA 5210	SP000087156	PG-TSSOP-28-1	ASK/FSK receiver, 433/868 MHz, tape & reel
TDA 5211	SP000016390	P-TSSOP-28-1	ASK/FSK receiver, 315 MHz, tape & reel
TDA 5212	SP000013430	P-TSSOP-28-1	ASK/FSK receiver, 915 MHz, tape & reel
TDA 5220	SP000014342	P-TSSOP-28-1	ASK/FSK receiver, 433/868 MHz, tape & reel
TDA 5221	SP000014343	P-TSSOP-28-1	ASK/FSK receiver, 315/317 MHz, tape & reel
TDA 5250	SP000012956	P-TSSOP-38-1	ASK/FSK transceiver, 868 MHz, tape & reel
TDA 5251	SP000014554	P-TSSOP-38-1	ASK/FSK transceiver, 315 MHz, tape & reel
▼ TDA 5252	SP000057332	P-TSSOP-38-1	ASK/FSK transceiver, 915 MHz, tape & reel
TDA 5255	SP000014555	P-TSSOP-38-1	ASK/FSK transceiver, 434 MHz, tape & reel
TDK 5100	SP000014556	P-TSSOP-16-1	ASK/FSK transmitter, 433/868 MHz, -40°C to 125°C operating temperature, tape & reel
TDK 5100 F	SP000014745	PG-TSSOP-10-1	ASK/FSK transmitter, 434 MHz, -40°C to 125°C operating temperature, tape & reel
TDK 5101	SP000014558	P-TSSOP-16-1	ASK/FSK transmitter, 315 MHz, -40°C to 125°C operating temperature, tape & reel
TDK 5101F	SP000014744	P-TSSOP-10-1	ASK/FSK transmitter, 315 MHz, -40°C to 125°C operating temperature, 10-dBm output power, tape & reel
TDK 5110	SP000013531	P-TSSOP-16-1	ASK/FSK transmitter, 433/868 MHz, -40°C to 125°C operating temperature, 10-dBm output power, tape & reel
▼ TDK 5110 F	SP000056180	PG-TSSOP-10-1	ASK/FSK transmitter, 433/868 MHz, -40°C to 125°C operating temperature, 10-dBm output power, tape & reel
TDK 5111	SP000014016	P-TSSOP-16-1	ASK/FSK transmitter, 315 MHz, -40°C to 125°C operating temperature, 10-dBm output power, tape & reel
▼ TDK 5111F	SP000056181	P-TSSOP-10-1	ASK/FSK transmitter, 315 MHz, -40°C to 125°C operating temperature, 10-dBm output power, tape & reel
▼ TDK 5116F	SP000056182	PG-TSSOP-10-1	ASK/FSK transmitter, 868 MHz, -40°C to 125°C operating temperature, 10-dBm output power, tape & reel

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## Chip Card + Security ICs

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# Chip Card + Security ICs

Type	Ordering Code	Package	Description
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## Trusted Computing

◆▼ SLB 9635 TT1.2	SP000107000	PG-TSSOP-28	Trusted Platform Module (TPM1.2)
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## Smart Card Controllers

### Performance Controller

◆ SLE 66C42P-C	SP000060149	wafer	High performance controller with 4-Kbyte EEPROM, 64-Kbyte ROM, 2048 + 256-byte RAM, HW-DES incl. EC, targeted certification Common Criteria EAL 5+
◆ SLE 66C42P-M5.1	SP000008985	T-M5.1-8-1	
◆ SLE 66C82P-C	SP000060171	wafer	High performance controller with 8-Kbyte EEPROM, 64-Kbyte ROM, 1024 + 256-byte RAM, targeted certification Common Criteria EAL 5+
◆ SLE 66C82P-M5.1	SP000060172	T-M5.1-8-1	
◆ SLE 66C644P-C	SP000060157	wafer	High performance controller with 64-Kbyte EEPROM, 208-Kbyte ROM, 4096 + 256-byte RAM in 0.22 µm technology, 112-bit DDES, ideal for GSM / UMTS applications
◆ SLE 66C644P-M5.1	SP000060158	T-M5.1-8-1	
◆ SLE 66CX322P-C	SP000060186	wafer	High performance controller with 32-Kbyte EEPROM, 136-Kbyte ROM, 4096 + 256-byte RAM + 700-byte Crypto RAM, certified according to common criteria level EAL 5+
◆ SLE 66CX322P-M5.1	SP000009097	T-M5.1-8-1	
◆ SLE 66CX322P-MFC5.6	SP000060188	S-MFC5.6-6	

### Enhanced High Performance Controller

◆ SLE 66C24PE-C	SP000060110	wafer	Enhanced high performance controller with 2-Kbyte EEPROM, 68-Kbyte ROM, 2304-byte RAM, DDES
◆ SLE 66C24PE-M5.1	SP000060111	T-M5.1-8-1	
◆ SLE 66C24PE-MFC5.6	SP000060112	S-MFC5.6-6	
◆ SLE 66C24PE-MFC5.8	SP000060113	S-MFC5.8-8-1	Enhanced high performance controller with 4-Kbyte EEPROM, 68-Kbyte ROM, 2304-byte RAM, DDES
◆ SLE 66C44PE-C	SP000060151	wafer	
◆ SLE 66C44PE-M5.1	SP000060152	T-M5.1-8-1	
◆ SLE 66C44PE-MFC5.6	SP000060153	S-MFC5.6-6	Enhanced high performance controller with 8-Kbyte EEPROM, 96-Kbyte ROM, 4352 + 700-byte Crypto RAM, 1100-bit advanced crypto engine, certified RSA 2048-bit library available, DDES
◆ SLE 66C44PE-MFC5.8	SP000060154	S-MFC5.8-8-1	
◆ SLE 66CX80PE-C	SP000060202	wafer	Enhanced high performance controller with 8-Kbyte EEPROM, 68-Kbyte ROM, 2304-byte RAM, DDES
◆ SLE 66CX80PE-M5.1	SP000060203	T-M5.1-8-1	
◆ SLE 66CX80PE-MFC5.6	SP000060204	S-MFC5.6-6	
◆ SLE 66CX80PE-MFC5.8	SP000060205	S-MFC5.8-8-1	Enhanced high performance controller with 16-Kbyte EEPROM, 48-Kbyte ROM, 2304-byte RAM
◆ SLE 66C84PE-C	SP000060173	wafer	
◆ SLE 66C84PE-M5.1	SP000060174	T-M5.1-8-1	
◆ SLE 66C84PE-MFC5.6	SP000060175	S-MFC5.6-6	Enhanced high performance controller with 16-Kbyte EEPROM, 96-Kbyte ROM, 4352 + 700-byte Crypto RAM, 1100-bit advanced crypto engine, certified RSA 2048-bit library available, DDES
◆ SLE 66C84PE-MFC5.8	SP000060176	S-MFC5.8-8-1	
◆ SLE 66C161PE-C	SP000067539	wafer	Enhanced high performance controller with 16-Kbyte EEPROM, 96-Kbyte ROM, 4352-byte RAM, DDES
◆ SLE 66C161PE-M5.1	SP000067515	T-M5.1-8-1	
◆ SLE 66C161PE-MFC5.6	SP000067537	S-MFC5.6-6	
◆ SLE 66C161PE-MFC5.8	SP000060085	S-MFC5.8-8-1	Enhanced high performance controller with 16-Kbyte EEPROM, 68-Kbyte ROM, 2304-byte RAM, DDES
◆ SLE 66CX162PE-C	SP000060182	wafer	
◆ SLE 66CX162PE-M5.1	SP000060183	T-M5.1-8-1	
◆ SLE 66CX162PE-MFC5.6	SP000060184	S-MFC5.6-6	Enhanced high performance controller with 16-Kbyte EEPROM, 96-Kbyte ROM, 4352 + 700-byte Crypto RAM, 1100-bit advanced crypto engine, certified RSA 2048-bit library available, DDES
◆ SLE 66CX162PE-MFC5.8	SP000060185	S-MFC5.8-8-1	
◆ SLE 66C166PE-C	SP000060100	wafer	Enhanced high performance controller with 16-Kbyte EEPROM, 96-Kbyte ROM, 4352-byte RAM, DDES
◆ SLE 66C166PE-M5.1	SP000060101	T-M5.1-8-1	
◆ SLE 66C166PE-MFC5.6	SP000060102	S-MFC5.6-6	
◆ SLE 66C166PE-MFC5.8	SP000060103	S-MFC5.8-8-1	Enhanced high performance controller with 16-Kbyte EEPROM, 68-Kbyte ROM, 2304-byte RAM, DDES
◆ SLE 66C168PE-C	SP000060105	wafer	
◆ SLE 66C168PE-M5.1	SP000067514	T-M5.1-8-1	
◆ SLE 66C168PE-MFC5.6	SP000060108	S-MFC5.6-6	Enhanced high performance controller with 16-Kbyte EEPROM, 68-Kbyte ROM, 2304-byte RAM, DDES
◆ SLE 66C168PE-MFC5.8	SP000060109	S-MFC5.8-8-1	

SMD = Surface Mounted Device

## Chip Card + Security ICs

Type	Ordering Code	Package	Description
<b>Smart Card Controllers</b>			
<b>Enhanced High Performance Controller</b>			
(cont'd)			
◆▼ SLE 50C363PE-C	SP000104935	wafer	Enhanced high performance controller with 36-Kbyte EEPROM, 96-Kbyte ROM, 4096-byte RAM
◆▼ SLE 50C363PE-M5.1	SP000104936	T-M5.1-8-1	
◆▼ SLE 50C363PE-MFC5.6	SP000104937	S-MFC5.6-6	
◆▼ SLE 50C363PE-MFC5.8	SP000104938	S-MFC5.8-8-1	
◆▼ SLE 50C683PE-C	SP000104939	wafer	Enhanced high performance controller with 36-Kbyte EEPROM, 136-Kbyte ROM, 4096-byte RAM, DDES
◆▼ SLE 50C683PE-M5.1	SP000104940	T-M5.1-8-1	
◆▼ SLE 50C683PE-MFC5.6	SP000104941	S-MFC5.6-6	
◆▼ SLE 50C683PE-MFC5.8	SP000104942	S-MFC5.8-8-1	
◆ SLE 66C321PE-M5.1	SP000060137	T-M5.1-8-1	Enhanced high performance controller with 32-Kbyte EEPROM, 96-Kbyte ROM, 2304-byte RAM
◆ SLE 66C321PE-MFC5.6	SP000060138	S-MFC5.6-6	
◆ SLE 66C321PE-MFC5.8	SP000060139	S-MFC5.8-8-1	
◆ SLE 66C324PE-C	SP000060144	wafer	Enhanced high performance controller with 32-Kbyte EEPROM, 136-Kbyte ROM, 4352-byte RAM, DDES
◆ SLE 66C324PE-M5.1	SP000009889	T-M5.1-8-1	
◆ SLE 66C324PE-MFC5.6	SP000067540	S-MFC5.6-6	
◆ SLE 66C324PE-MFC5.8	SP000067545	S-MFC5.8-8-1	
◆ SLE 66C360PE-C	SP000060146	wafer	Enhanced high performance controller with 36-Kbyte EEPROM, 196-Kbyte ROM, 4352-byte RAM, DDES
◆ SLE 66C360PE-M5.1	SP000067575	T-M5.1-8-1	
◆▼ SLE 66C367PE-C	SP000204418	wafer	Enhanced high performance controller with 36-Kbyte EEPROM
◆▼ SLE 66C367PE-M5.1	SP000204419	T-M5.1-8-1	
◆▼ SLE 66C367PE-MFC5.6	SP000204420	S-MFC5.6-6	
◆▼ SLE 66C367PE-MFC5.8	SP000204421	S-MFC5.8-8-1	
◆ SLE 66CX360PE-C	SP000060189	wafer	Enhanced high performance controller with 36-Kbyte EEPROM, 196-Kbyte ROM, 6400 + 700-byte Crypto RAM, 1100-bit advanced crypto engine, certified RSA 2048-bit library available, DDES
◆▼ SLE 66CX360PE-M5.1	SP000215320	T-M5.1-8-1	
◆ SLE 66CX360PE-MFC5.6	SP000060191	S-MFC5.6-6	
◆ SLE 66CX360PE-MFC5.8	SP000060192	S-MFC5.8-8-1	Enhanced high performance controller with 68-Kbyte EEPROM, 244-Kbyte ROM, 6400-byte RAM, DDES
◆ SLE 66C680PE-M	SP000060159	wafer	
◆ SLE 66C680PE-M5.1	SP000060160	T-M5.1-8-1	
◆ SLE 66CX680PE-C	SP000067526	wafer	Enhanced high performance controller with 68-Kbyte EEPROM, 244-Kbyte ROM, 6400 + 700-byte Crypto RAM, 1100-bit advanced crypto engine, certified RSA 2048-bit library available, DDES
◆▼ SLE 66CX680PE-M5.1	SP000216967	T-M5.1-8-1	
◆ SLE 66CX680PE-MFC5.6	SP000060200	S-MFC5.6-6	
◆ SLE 66CX680PE-MFC5.8	SP000060201	S-MFC5.8-8-1	
◆ SLE 66C681PE-C	SP000060161	wafer	Enhanced high performance controller with 68-Kbyte EEPROM, 136-Kbyte ROM, 4352-byte RAM, DDES
◆ SLE 66C681PE-M5.1	SP000060162	T-M5.1-8-1	
◆ SLE 66C681PE-MFC5.6	SP000060163	S-MFC5.6-6	
◆ SLE 66C681PE-MFC5.8	SP000060164	S-MFC5.8-8-1	
◆ SLE 66C682PE-C	SP000060165	wafer	Enhanced high performance controller with 68-Kbyte EEPROM, 196-Kbyte ROM, 4352-byte RAM, DDES
◆ SLE 66C682PE-M5.1	SP000060166	T-M5.1-8-1	
◆ SLE 66C682PE-MFC5.6	SP000060167	S-MFC5.6-6	
◆ SLE 66C682PE-MFC5.8	SP000060168	S-MFC5.8-8-1	

SMD = Surface Mounted Device

# Chip Card + Security ICs

Type	Ordering Code	Package	Description
<b>Smart Card Controllers</b>			
<b>High End Security Controller</b>			
◆▼ SLE 88C1690P-C	SP000234852	wafer	High end 32-bit security controller with 164-Kbyte EEPROM, 304-Kbyte ROM, 12-Kbyte RAM, DDES, ideal for virtual machine, optimized for multi-application
◆▼ SLE 88C1690P-M5.1	SP000234853	T-M5.1-8-1	
◆▼ SLE 88C1690P-MFC5.6	SP000234854	S-MFC5.6-6	
◆▼ SLE 88C1690P-MFC5.8	SP000234855	S-MFC5.8-8-1	
◆▼ SLE 88C920P-C	SP000227724	wafer	High end 32-bit security controller with 92-Kbyte EEPROM, 304-Kbyte ROM, 12-Kbyte RAM, DDES, ideal for virtual machine, optimized for multi-application
◆▼ SLE 88C920P-M5.1	SP000227725	T-M5.1-8-1	
◆▼ SLE 88C920P-MFC5.6	SP000227726	S-MFC5.6-6	
◆▼ SLE 88C920P-MFC5.8	SP000227727	S-MFC5.8-8-1	
◆▼ SLE 88CF2920P-C	SP000096156	wafer	High end 32-bit security controller with 292-Kbyte EEPROM, 80-Kbyte ROM, 16-Kbyte RAM with powerful Memory Management & Protection Unit, optimized for multi-application cards with highest level security
◆▼ SLE 88CF2920P-M5.1	SP000096157	T-M5.1-8-1	
◆▼ SLE 88CF2920P-MFC5.6	SP000096158	S-MFC5.6-6	
◆▼ SLE 88CF2920P-MFC5.8	SP000096159	S-MFC5.8-8-1	
◆▼ SLE 88CFX2920P-C	SP000096151	wafer	High end 32-bit security controller with 292-Kbyte EEPROM, 80-Kbyte ROM, 16-Kbyte RAM with powerful Memory Management & Protection Unit, optimized for multi-application cards with highest level security
◆▼ SLE 88CFX2920P-M5.1	SP000096152	T-M5.1-8-1	
◆▼ SLE 88CFX2920P-MFC5.6	SP000096149	S-MFC5.6-6	
◆▼ SLE 88CFX2920P-MFC5.8	SP000096150	S-MFC5.8-8-1	
◆▼ SLE 88CF3520P-C	SP000096160	wafer	High end 32-bit security controller with 352-Kbyte EEPROM, 80-Kbyte ROM, 16-Kbyte RAM with powerful Memory Management & Protection Unit, optimized for multi-application cards with highest level security
◆▼ SLE 88CF3520P-M5.1	SP000096161	T-M5.1-8-1	
◆▼ SLE 88CF3520P-MFC5.6	SP000096162	S-MFC5.6-6	
◆▼ SLE 88CF3520P-MFC5.8	SP000096163	S-MFC5.8-8-1	
◆ SLE 88CFX720P-C	SP000060217	wafer	High end 32-bit security controller with 80-Kbyte EEPROM, 240-Kbyte ROM, 8192-byte RAM, ideal for virtual machine execution and for calculation of Crypto algorithm, optimized for multi-application cards with highest level security
◆ SLE 88CFX720P-M5.3	SP000060218	T-M5.3	
◆▼ SLE 88CFX3520P-C	SP000096154	wafer	High end 32-bit security controller with 352-Kbyte EEPROM, 80-Kbyte ROM, 16-Kbyte RAM with powerful Memory Management & Protection Unit, optimized for multi-application cards with highest level security
◆▼ SLE 88CFX3520P-M5.1	SP000096155	T-M5.1-8-1	
◆▼ SLE 88CFX3520P-MFC5.6	SP000096153	S-MFC5.6-6	
◆▼ SLE 88CF4000P-C	SP000067771	wafer	High end 32-bit security controller with 400-Kbyte EEPROM, 80-Kbyte ROM, 16-Kbyte RAM, ideal for virtual machine, optimized for multi-application cards with highest level security
◆▼ SLE 88CF4000P-M5.1	SP000067772	T-M5.1-8-1	
◆▼ SLE 88CF4000P-MFC5.6	SP000210814	S-MFC5.6-6	
◆▼ SLE 88CF4000P-MFC5.8	SP000067773	S-MFC5.8-8-1	
◆ SLE 88CFX4000P-C	SP000060206	wafer	High end 32-bit security controller with 400-Kbyte EEPROM, 80-Kbyte ROM, 16-Kbyte RAM, ideal for virtual machine execution and for calculation of Crypto algorithm, optimized for multi-application cards with highest level security
◆ SLE 88CFX4000P-M5.1	SP000060207	T-M5.1-8-1	
◆▼ SLE 88CFX4000P-MFC5.6	SP000207229	S-MFC5.6-6	
◆▼ SLE 88CFX4000P-MFC5.8	SP000207223	S-MFC5.8-8-1	
◆ SLE 88CFX4002P-C	SP000060214	wafer	
◆ SLE 88CFX4002P-M5.1	SP000060215	T-M5.1-8-1	
◆ SLE 88CFX4002P-MFC5.8	SP000060216	S-MFC5.8-8-1	

SMD = Surface Mounted Device

# Chip Card + Security ICs

Type	Ordering Code	Package	Description
<b>Smart Card Memories</b>			
<b>Telecom ICs</b>			
◆ SLE 7736-C	SP000060269	wafer	New high class Telecom IC manufactured in IMEM 2000 technology. Eurochip 77 defines the new standard for Smart Card Memories. Intelligent 237-bit EEPROM counter for > 20000 units with security logic, high security authentication and Card-Trash mechanism, data of 3rd byte are programmed by Infineon exclusively
◆ SLE 7736-M3.2	SP000060270	T-M3.2-6-1	
◆▼ SLE 7736-MFC3.1	SP000228320	S-MFC3.1-6-1	
◆▼ SLE 7736E-C	SP000009512	wafer	
◆▼ SLE 7736E-D	SP000009513	wafer sawn	
◆▼ SLE 7736E-M3.2	SP000009443	T-M3.2-6-1	New high class Telecom IC manufactured in IMEM 2000 technology. Eurochip 77 defines the new standard for Smart Card Memories. Intelligent 237-bit EEPROM counter for > 20000 units with security logic, high security authentication and Card-Trash mechanism, data of 3rd byte are programmed by the card manufacturer at personalization
◆ SLE 6636-C	SP000060267	wafer	Eurochip 66 take the advantage of 18 years experience in the Smart Card Memory business. Intelligent 237-bit EEPROM counter for > 20000 units with security logic, high security authentication and Card-Trash mechanism
◆▼ SLE 6636COM-C	SP000010098	wafer	
◆ SLE 6636-D	SP000010093	wafer sawn	
◆▼ SLE 6636COM-D	SP000010094	wafer sawn	
◆ SLE 6636-M3.2	SP000010110	T-M3.2-6-1	
◆▼ SLE 6636COM-M3.2	SP000010111	T-M3.2-6-1	
◆ SLE 6636-MFC3.1	SP000010022	S-MFC3.1-6-1	
◆▼ SLE 6636COM-M3.2	SP000010020	S-MFC3.1-6-1	
◆▼ SLE 6636E-C	SP000101316	wafer	
◆▼ SLE 6636E-COM-D	SP000079443	wafer sawn	
◆▼ SLE 6636E-M3.2	SP000204855	T-M3.2-6-1	Eurochip 66 take the advantage of 18 years experience in the Smart Card Memory business. Intelligent 237-bit EEPROM counter for > 20000 units with security logic, high security authentication and Card-Trash mechanism, 40-bit counter area including 1-bit for personalization (PROM/EEPROM)
◆▼ SLE 6636E-COM-M3.2	SP000214217	T-M3.2-6-1	
◆▼ SLE 6636E-MFC3.1	SP000102643	S-MFC3.1-6-1	
◆▼ SLE 6636E-COM-MFC3.1	SP000217141	S-MFC3.1-6-1	
◆▼ SLE 4406SPE-C	SP000095249	wafer	Classic is a intelligent 112-bit EEPROM counter for > 20000 units with security logic without authentication, 40 bit for personalization data of card issuer, data of 3rd byte are programmed by the card manufacturer at personalization
◆▼ SLE 4406SPE-D	SP000095254	wafer sawn	
◆▼ SLE 4406SPE-M3.2	SP000095380	T-M3.2-6-1	
◆▼ SLE 4406SPE-MFC3.1	SP000095381	S-MFC3.1-6-1	
<b>Datacarrier ICs</b>			
◆ SLE 4418-M2.2	SP000060239	T-M2.2-8-1	Data Carrier 44 for identification applications (health insurance card, access control and member card), intelligent 1-Kbyte EEPROM, 24-bit ROM
◆■ SLE 4428-C	SP000060240	wafer	Data Carrier 44 for identification applications (health insurance card, access control and member card), intelligent 1-Kbyte EEPROM, 24-bit ROM, with security code, security logic and transport key
◆ SLE 4428-M2.2	SP000060241	T-M2.2-8-1	
◆ SLE 4432-C	SP000060242	wafer	Data Carrier 44 for identification applications (health insurance card, access control, electronic ticket and loyalty), intelligent 256-byte EEPROM, 32-bit ROM, with byte protection, irreversible chip coding
◆ SLE 4432-M3.2	SP000060243	T-M3.2-6-1	
◆▼ SLE 4432 MFC3.1	SP000063713	S-MFC3.1-6-1	Data Carrier 44 for identification applications (health insurance card, access control, electronic ticket and loyalty), intelligent 256-byte EEPROM, 32-bit ROM, with byte protection, irreversible chip coding, security code, security logic and transport key
◆ SLE 4442-C	SP000060256	wafer	
◆■ SLE 4442-M2.2	SP000009848	T-M2.2-8-1	
◆ SLE 4442-M3.2	SP000067536	T-M3.2-6-1	
◆▼ SLE 4442-MFC3.1	SP000095055	S-MFC3.1-6-1	Intelligent 256-byte EEPROM with write protection function, will replace SLE 4432
◆▼ SLE 5532-C	SP000222820	wafer	
◆▼ SLE 5532-M2.2	SP000222821	T-M2.2-8-1	
◆▼ SLE 5532-M3.2	SP000222822	T-M3.2-6-1	
◆▼ SLE 5532-MFC3.1	SP000222823	S-MFC3.1-6-1	Intelligent 256-byte EEPROM with write protection function and Programmable Security Code (PSC), will replace SLE 4442
◆▼ SLE 5542-C	SP000222824	wafer	
◆▼ SLE 5542-M2.2	SP000222825	T-M2.2-8-1	
◆▼ SLE 5542-M3.2	SP000222826	T-M3.2-6-1	
◆▼ SLE 5542-MFC3.1	SP000222827	S-MFC3.1-6-1	

SMD = Surface Mounted Device

## Chip Card + Security ICs

Type	Ordering Code	Package	Description
<b>Contactless Products</b>			
<b>Contactless Security Controller</b>			
◆	SLE 66CL80P-C	SP000060223	wafer
◆▼	SLE 66CL80P-NB	SP000060225	wafer sawn
◆	SLE 66CL80P-M8.4	SP000067534	P-M8.4-8-1
◆	SLE 66CLX320P-C	SP000060231	wafer
◆	SLE 66CLX320P-M8.4	SP000060232	P-M8.4-8-1
◆	SLE 66CLX320P-MCC8	SP000009480	P-MCC8-2-1
◆	SLE 66CL81P-C	SP000060226	wafer
◆▼	SLE 66CL81P-NB	SP000067777	wafer sawn
◆	SLE 66CL81P-MCC8	SP000060230	P-MCC8-2-1
◆	SLE 66CLX321P-C	SP000060233	wafer
◆	SLE 66CLX321P-MCC8	SP000060234	P-MCC8-2-1
◆	SLE 66CLX640P-C	SP000060235	wafer
◆	SLE 66CLX640P-M8.4	SP000067542	T-M8.4-8-1
◆	SLE 66CLX641P-C	SP000060236	wafer
◆▼	SLE 66CLX641P-M	SP000017196	wafer
◆	SLE 66CLX641P-MCC8	SP000018099	P-MCC8-2-1
◆▼	SLE 66CLX641P-MFC5.8	SP000060237	S-MFC5.8-8-1

SMD = Surface Mounted Device

## Chip Card + Security ICs

Type	Ordering Code	Package	Description
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### Contactless Products

#### Contactless Memories my-d™ vicinity

◆▼ SRF 55V01P-NB	SP000219049	wafer sawn	Intelligent 576-bit EEPROM with contactless interface complying to ISO/IEC 18000-3 mode 1 ISO compliant mode
◆ SRF 55V02P-C	SP000009363	wafer	Intelligent 2-Kbit EEPROM with contactless interface complying to ISO/IEC 15693 and security logic
◆ SLE 55V02P-NB	SP000009489	wafer sawn	
◆ SRF 55V02P-MCC2	SP000009367	P-MCC2-2-1	
◆ SRF 55V02P-MFCC1	SP000010033	S-MFCC1-2-1	
◆ SRF 55V02P-S-Y1.0	SP000009372	S-Y1.0-2-1	
◆ SRF 55V02S-C	SP000009364	wafer	Intelligent 2-Kbit EEPROM with contactless interface complying to ISO/IEC 15693 and security logic, security algorithm, 64-bit key length, selective memory access control, 32-bit MAC, transport key
◆ SRF 55V02S-NB	SP000009491	wafer sawn	
◆ SRF 55V02S-MCC2	SP000009368	P-MCC2-2-1	
◆ SRF 55V02S-MFCC1	SP000010034	S-MFCC1-2-1	
◆ SRF 55V02S-S-Y1.0	SP000009373	S-Y1.0-2-1	
◆ SRF 55V02S-S-Y2.0	SP000009374	S-Y2.0-2-1	Intelligent 10-Kbit EEPROM with contactless interface complying to ISO/IEC 15693 and security logic
◆ SRF 55V10P-C	SP000009362	wafer	
◆ SRF 55V10P-NB	SP000009490	wafer sawn	
◆ SRF 55V10P-MCC2	SP000009365	P-MCC2-2-1	
◆ SRF 55V10P-MFCC1	SP000010035	S-MFCC1-2-1	
◆ SRF 55V10S-C	SP000009289	wafer	Intelligent 10-Kbit EEPROM with contactless interface complying to ISO/IEC 15693 and security logic, security algorithm, 64-bit key length, selective memory access control, 32-bit MAC, transport key
◆ SRF 55V10S-NB	SP000009290	wafer sawn	
◆ SRF 55V10S-MCC2	SP000009366	P-MCC2-2-1	
◆ SRF 55V10S-MFCC1	SP000010036	S-MFCC1-2-1	
◆ SRF 55V10S-S-Y1.0	SP000009371	S-Y1.0-2-1	
◆ SRF 55V10S-S-Y2.0	SP000009376	S-Y2.0-2-1	Intelligent 10-Kbit EEPROM with contactless interface complying to ISO/IEC 18000-3 Mode 2, PJM item tag
◆▼ SRF 66V10IT-NB	SP000010136	wafer	
◆▼ SRF 66V10ST-NB	SP000206820	wafer sawn	Intelligent 10-Kbit EEPROM with contactless interface enhancement of ISO/IEC 18000-3 Mode 2, stack tag
◆ my-d vicinity eva kit	SP000010087	—	Evaluation kit for my-d™ vicinity products

#### Contactless Memories my-d™ proximity

◆▼ SLE 55R04	SP000008645	wafer	Intelligent 770-byte EEPROM with contactless interface complying to ISO/IEC 14443 type A and security logic
◆ SLE 55R04-NB	SP000076154	wafer sawn	
◆ SLE 55R04-MCC2	SP000008803	P-MCC2-2-1	
◆ SLE 55R16-C	SP000107208	wafer	Intelligent 2560-byte EEPROM with contactless interface complying to ISO/IEC 14443 type A and security logic

#### Infineon MIFARE®

◆ SLE 66R35-C	SP000009422	wafer	Intelligent 1-Kbyte Memory chip with interface for contactless transmission according to the MIFARE®-system
◆ SLE 66R35-NB	SP000009425	wafer sawn	
◆ SLE 66R35-MCC2	SP000009450	P-MCC2-2-1	
◆ SLE 66R35-MCC8	SP000009487	P-MCC8-2-1	
◆ SLE 66R35-MFCC1	SP000010024	S-MFCC1-2-1	

SMD = Surface Mounted Device

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## Plastic Optical Fiber Components

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# Plastic Optical Fiber Components

Type	Ordering Code	$\Phi_{in}$ Plastic Fibre $\mu W$	$\lambda_{peak}$ nm	$t_r$ $\mu s$	$t_f$ $\mu s$
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## Plastic Fiber Components

### Light-Link Diodes (Emitter)

(polished fiber ends;  $I_f = 10 \text{ mA}$ )

SFH 756	SP000063802	200 ( $\geq 100$ )	660	0.1	0.1
SFH 757	SP000063871	150 ( $\geq 100$ )	650	15	18

### Light-Link Diodes (Emitter) with Screw Connection

SFH 756 V	SP000063814	200 ( $\geq 100$ )	660	0.1	0.1
SFH 757 V	SP000063858	150 ( $\geq 100$ )	650	15	18

Type	Ordering Code	$I_p$ $V_R = 5 \text{ V}$ $\Phi_{in} = 10 \mu W$ $\mu A$	$\lambda_{Smax}$ nm	$V_{Rmax}$ V
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### Light-Link Diode (Detector)

SFH 250	SP000063866	3.0 ( $\lambda = 660 \text{ nm}$ )	850	30
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### Light-Link Diode (Detector) with Screw Connection

SFH 250 V	SP000063852	3.0 ( $\lambda = 660 \text{ nm}$ )	850	30
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Type	Ordering Code	$I_{CE}$ $\mu A$	$\lambda_{Smax}$ nm	$V_{CEO}$ V
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### Light-Link Transistor (Detector)

SFH 350	SP000063861	0.8 ( $\lambda = 660 \text{ nm}$ )	850	50
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### Light-Link Transistor (Detector) with Screw Connection

SFH 350 V	SP000063853	0.8 ( $\lambda = 660 \text{ nm}$ )	850	50
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Type	Ordering Code	Transmission Rate Mbit/s	$\Phi_{opt}^{1)}$ $\mu W$	$t_{PHL}, t_{PLH}$ ns
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### Light-Link Digital Emitter (TTL Compatible, open Collector)

SFH 551/1-1	SP000063860	5	6 ... 1000	< 100, < 250
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### Light-Link Digital Emitter (TTL Compatible) with Screw Connection

SFH 551/1-1V	SP000063855	5	6 ... 1000	< 100, < 250
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1) Optical output for "Low" measured at fibre end



## Plastic Optical Fiber Components

Type	Ordering Code	Description
<b>Plastic Fiber Components</b>		
<b>MOST®-Optical POF Transmitter and Receiver</b>		
▼ SPF MIR 003 02	SP000063793	Infineon's MOST® (Media Oriented Systems Transport) is a high-end POF receiver for in-car entertainment and information system, 50 Mbit/s, 650 nm LED and Si-detectors, 5 V, tube
▼ SPF MIT 003 02	SP000063798	Infineon's MOST® (Media Oriented Systems Transport) is a high-end POF transmitter for in-car entertainment and information system, 50 Mbit/s, 650 nm LED and Si-detectors, 5 V, tube
▼ SPF MIR 401	SP000085239	Infineon's MOST® (Media Oriented Systems Transport) is a high-end POF receiver with extended temperature range (-40°C to 95°C) for in-car entertainment and information system, 50 Mbit/s, 650 nm LED and Si-detectors, 5 V (3.3 V on request), compliant to MOST PHY1.1, tube
▼ SPF MIT 401	SP000085139	Infineon's MOST® (Media Oriented Systems Transport) is a high-end POF transmitter with extended temperature range (-40°C to 95°C) for in-car entertainment and information system, 50 Mbit/s, 650 nm LED and Si-detectors, 5 V (3.3 V on request), compliant to MOST PHY1.1, tube
▼ SPF MIT 401+	SP000105135	Infineon's MOST® (Media Oriented Systems Transport) is a high-end POF transmitter with extended temperature range (-40°C to 95°C) and enhanced functionality for use in combination with the SMSC NIC OS8104, for in-car entertainment and information system, 50 Mbit/s, 650 nm LED and Si-detectors, 5 V (3.3 V on request), compliant to MOST PHY1.1, tube

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## Summary of Types

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# Summary of Types

Type	Ordering Code	Page	Type	Ordering Code	Page
<b>Numerics</b>			BA 892-02V 10k	SP000013175	122
2ED020112F	SP000014669	89	BA 892-02V 3k	SP000013174	122
2ED020112F	SP000107512	89	BA 892-02V 8k	SP000104706	122
<b>A</b>			BA 895 3k	SP000012458	122
ADM 5120 PX AB T2	SP000081012	19	BAL 74 3k	SP000014992	103
ADM 5120 X AB T2-G	SP000078983	19	BAL 99 10k	SP000010161	103
ADM 6992 CX AB T1	SP000076431	19	BAL 99 3k	SP000010159	103
ADM 6992 FX AB T1	SP000077768	19	BAR 14-1 (Dual) 3k	SP000010164	122
ADM 6992 KX AB T1	SP000076432	19	BAR 15-1 (Dual) 3k	SP000010163	122
ADM 6992 SX AB T1	SP000223283	19	BAR 16-1 (Dual) 3k	SP000010165	122
ADM 6992 X AD T1	SP000076445	19	BAR 50-02L 15k	SP000013603	122
ADM 6993 FX AD T1	SP000016437	19	BAR 50-02V 3k	SP000012921	122
ADM 6993 X AD T1	SP000076438	19	BAR 61 (Triple) 3k	SP000010169	122
ADM 6995 LCX AD T1	SP000219864	19	BAR 63-02L 15k	SP000013537	122
ADM 6996 FCX AD R1	SP000229744	19	BAR 63-02L 50k	SP000013538	122
ADM 6996 FCX AD T1	SP000219863	19	BAR 63-02V 3k	SP000010162	122
ADM 6996 HX AD T1	SP000220561	20	BAR 63-02W 10k	SP000010171	123
ADM 6996 IX AD T1	SP000219861	19	BAR 63-02W 3k	SP000010170	123
ADM 6996 LCX AD R1	SP000228446	20	BAR 63-02W 8k	SP000104697	123
ADM 6996 LCX AD T1	SP000219862	20	BAR 63-03W (Dual) 10k	SP000010173	123
ADM 6996 MX AD T1	SP000210310	20	BAR 63-03W (Dual) 3k	SP000010172	123
ADM 6999 GX A2 T1	SP000076440	20	BAR 63-04 (Dual) 3k	SP000012206	123
ADM 6999 UX A2 T1	SP000076439	20	BAR 63-04W (Dual) 3k	SP000010174	123
ADM 6999 X A2 T1	SP000076443	20	BAR 63-05 (Dual) 10k	SP000012210	123
ADM 7001 X AC R1	SP000083260	20	BAR 63-05 (Dual) 3k	SP000012207	123
ADM 7001 X AC T1	SP000076255	20	BAR 63-05W (Dual) 3k	SP000010175	123
ADM 8262 X AC T1	SP000208914	21	BAR 63-06 (Dual) 3k	SP000012208	123
ADM 8266 A21	SP000098969	21	BAR 63-06W (Dual) 3k	SP000010176	123
ADM 8266M A21	SP000098970	21	BAR 64-02LRH 15k	SP000051041	123
ADM 8511 X CC T1	SP000076521	19	BAR 64-02LRH 50k	SP000083331	123
ADM 8513 X AD T1	SP000077769	19	BAR 64-02V 3k	SP000010361	123
ADM 8515X AC T1	SP000064377	19	BAR 64-02V 8k	SP000104696	123
ADM 8668 FX A12-G	SP000208946	19	BAR 64-03W 3k	SP000010179	123
ADM 8668 TX A12	SP000208947	19	BAR 64-04 (Dual) 3k	SP000012211	123
AN 983 BLX BG TV1	SP000076446	19	BAR 64-04W (Dual) 3k	SP000010180	123
AN 983 BX BG TV1	SP000075554	19	BAR 64-05 (Dual) 10k	SP000012214	123
AN 983 BX BG TV3	SP000103413	19	BAR 64-05 (Dual) 3k	SP000012212	123
AN 983X AH T 21	SP000078897	19	BAR 64-05W (Dual) 10k	SP000010183	123
AN 983X AH T 22	SP000078898	19	BAR 64-05W (Dual) 3k	SP000010181	123
AN 985 BX BG TV1	SP000076447	19	BAR 64-06 (Dual) 3k	SP000012213	123
<b>B</b>			BAR 64-06W (Dual) 3k	SP000010182	123
BA 592 10k	SP000010142	122	BAR 64-07 (Dual) 3k	SP000010184	123
BA 592 3k	SP000010141	122	BAR 65-02L 15k	SP000013542	123
BA 595 10k	SP000010148	122	BAR 65-02V 3k	SP000010359	123
BA 595 10x3k	SP000095921	122	BAR 65-03W 3k	SP000010186	123
BA 595 3k	SP000010146	122	BAR 66	SP000010187	125
BA 885 3k	SP000010151	122	BAR 67-02V 3k	SP000010369	123
BA 892 10k	SP000010158	122	BAR 74 3k	SP000010202	103
BA 892 3k	SP000010154	122	BAR 81W 3k	SP000010192	121
BA 892 8k	SP000104705	122	BAR 88-02LRH 15k	SP000051042	123
BA 892-02L 15k	SP000013535	122	BAR 88-02LRH 50k	SP000083408	123
			BAR 88-02V 3k	SP000013484	123
			BAR 88-02V 8k	SP000104695	123
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BAR 90-098L4 (Dual) 15k	SP000062626	123	BAS 70-05 (Dual) 10k	SP000078827	105
BAR 90-098LRH (Dual) 15k	SP000053484	123	BAS 70-05 (Dual) 3k	SP000010252	105
BAR 90-099LRH 15k	SP000053485	123	BAS 70-05W (Dual) 3k	SP000010250	105
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BAS 116 3k	SP000010194	103	BAS 70-06 (Dual) 3k	SP000010254	105
BAS 125-04W (Dual) 3k	SP000012255	121	BAS 70-06W (Dual) 3k	SP000010251	105
BAS 125-05W (Dual) 3k	SP000012256	121	BAS 70-07 (Dual) 10k	SP000010269	105
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BAS 125-07W (Dual) 3k	SP000010198	121	BAS 70-07W (Dual) 3k	SP000010270	105
BAS 140W 3k	SP000010199	105	BAT 15-02LRH 15k	SP000055124	121
BAS 16 10k	SP000010201	103	BAT 15-03W 3k	SP000010272	121
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BAS 16 3k	SP000010203	103	BAT 15-05W (Dual) 3k	SP000012597	121
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BAS 16-03W 3k	SP000010213	103	BAT 165 3k	SP000010277	106
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BCR 139F 3k	SP000014442	110	BCR 166T 3k	SP000014766	114
BCR 139L3 15k	SP000014857	110	BCR 166W 3k	SP000012875	114
BCR 139T 3k	SP000014763	110	BCR 169 3k	SP000010793	114
BCR 141 10k	SP000010771	110	BCR 169F 3k	SP000014447	114
BCR 141 3k	SP000010769	110	BCR 169L3 15k	SP000014871	114
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BCR 142F 3k	SP000014063	110	BCR 183 10x3k	SP000057461	114
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SPA 17N80C3	SP000216353	73	SPB 80N03S2L-04 G	SP000200143	54
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SPB 02N60S5	SP000012388	70	SPB 80N04S2L-03	SP000016354	55
SPB 03N60C3	SP000013517	70	SPB 80N06S-08	SP000054056	51
SPB 03N60S5	SP000012341	70	SPB 80N06S2-05	SP000016351	56
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