

Automotive MOSFETs

OptiMOS™ Families – Green and Robust

[www.infineon.com/automotivemosfet]



Infineon OptiMOS™ – Benchmark for Automotive MOSFETs



OptiMOS™ Products are Best in Class

OptiMOS™ superior performance is based on Infineon's leading MOSFET technology combined with the unsurpassed quality of robust package:

- Best in class $R_{DS(on)}$ performance for increased system efficiency
- Highest current DPAK + D²PAK on the market for reduced ECU module size
- Lowest switching and conduction power losses for increased thermal system reliability
- Robust green package for easy process handling

New OptiMOS™-T2 Product Family

New OptiMOS™-T2 trench technology is the benchmark for applications in energy efficiency, CO₂ reduction, electric drives, etc. The new OptiMOS™-T2 product family extends the existing families of OptiMOS™-T and OptiMOS™.

OptiMOS™ Robust Green Package

OptiMOS™ robust package is the benchmark for quality and reliability.

Robust package sustains 260°C GREEN reflow processes at MSL1 combined with automotive qualification. No special handling or dry-pack is needed.

All green packages are in compliance with RoHS/WEEE guidelines.

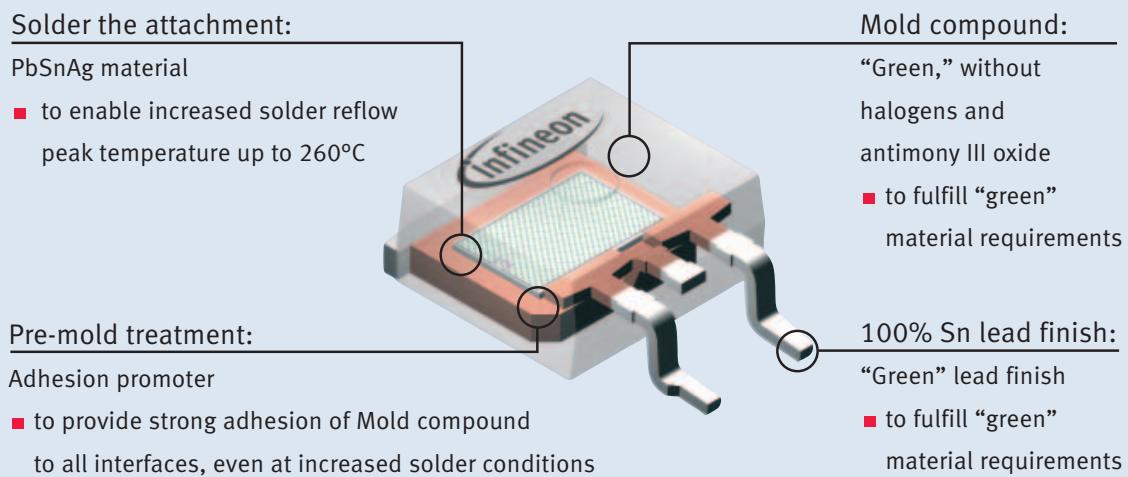
	Voltage Class [V]	OptiMOS™-T2 (Trench)	OptiMOS™-T (Trench)	OptiMOS™ (Planar)
Single MOSFET				
NEW!	N-Channel 30	•		•
NEW!	N-Channel 40	•	•	•
	N-Channel 55			•
NEW!	N-Channel 60	•		
	N-Channel 75			•
	N-Channel 100		•	
NEW!	P-Channel 30 + 40	•		
Dual MOSFET				
NEW!	Dual N-Channel 2 x 55		•	•
	P+N-Channel 30 + 55		•	



Green and Robust Package

INFINEON GREEN AND ROBUST MOSFET PACKAGES are designed to comply with RoHS (Restriction of the use of Hazardous Substances Directive) and WEEE (Waste Electrical and Electronic Equipment) regulations requirements. Lead-free PCB solders require higher peak reflow temperatures combined with increased stress for the package compared to leaded solders.

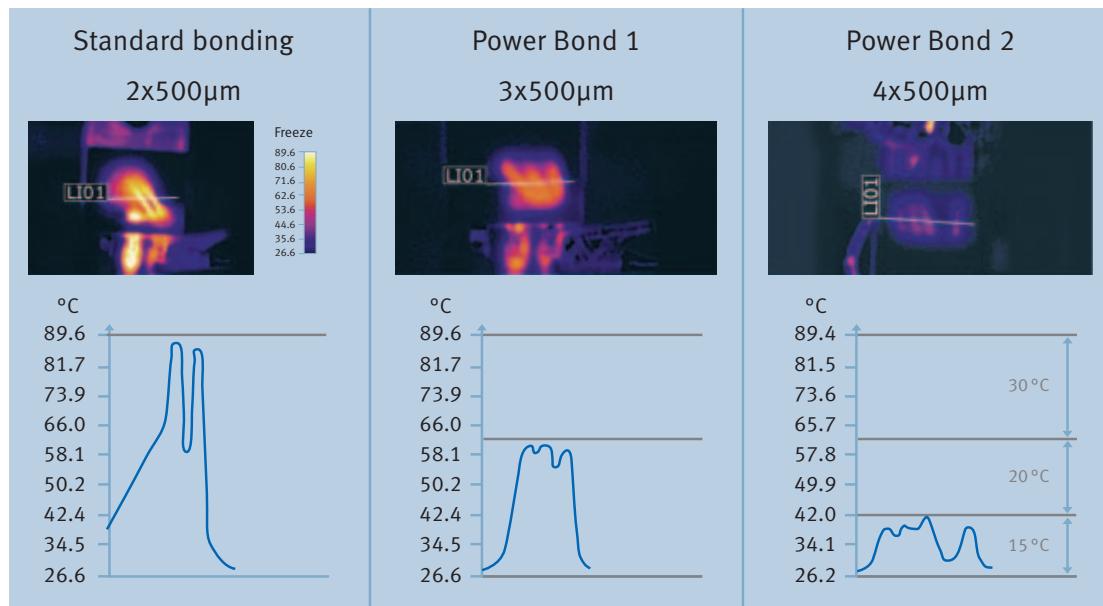
To avoid any temperature overstress (e.g. delamination of mold compound and metallic contacts), Infineon Green and Robust MOSFET packages can sustain up to 260°C peak reflow temperatures and are fully backward compatible with existing leaded solder processes. This directly increased quality on system level of our customers.



Power Bond Technology

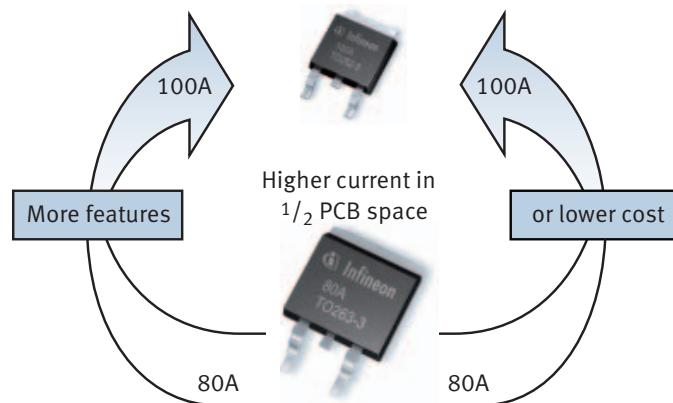
POWER BOND IS INFINEON'S HIGH-CURRENT wirebond technology. It addresses the bondwire limitation in a MOSFET's current rating.

Power Bond reduces the $R_{DS(on)}$ drop of the bondwires and increases the current capability. This also improves the reliability by keeping the wirebonds cooler, even with high currents.



Power Bond Technology allows up to four double-stitch 500μm wirebonds on a single OptiMOS™ device, which enables a current rating of upto 180A in a TO263-7 package. Power Bond Technology also increase current rating of a DPAK of upto 100A. Thus a standard 80A D²PAK can be replaced with a standard 100A DPAK plus 25% increase of output current.

DPAK replaces D²PAK



Package Integration – Dual Super SO8 Package

OptiMOS™ in Dual Super SO8

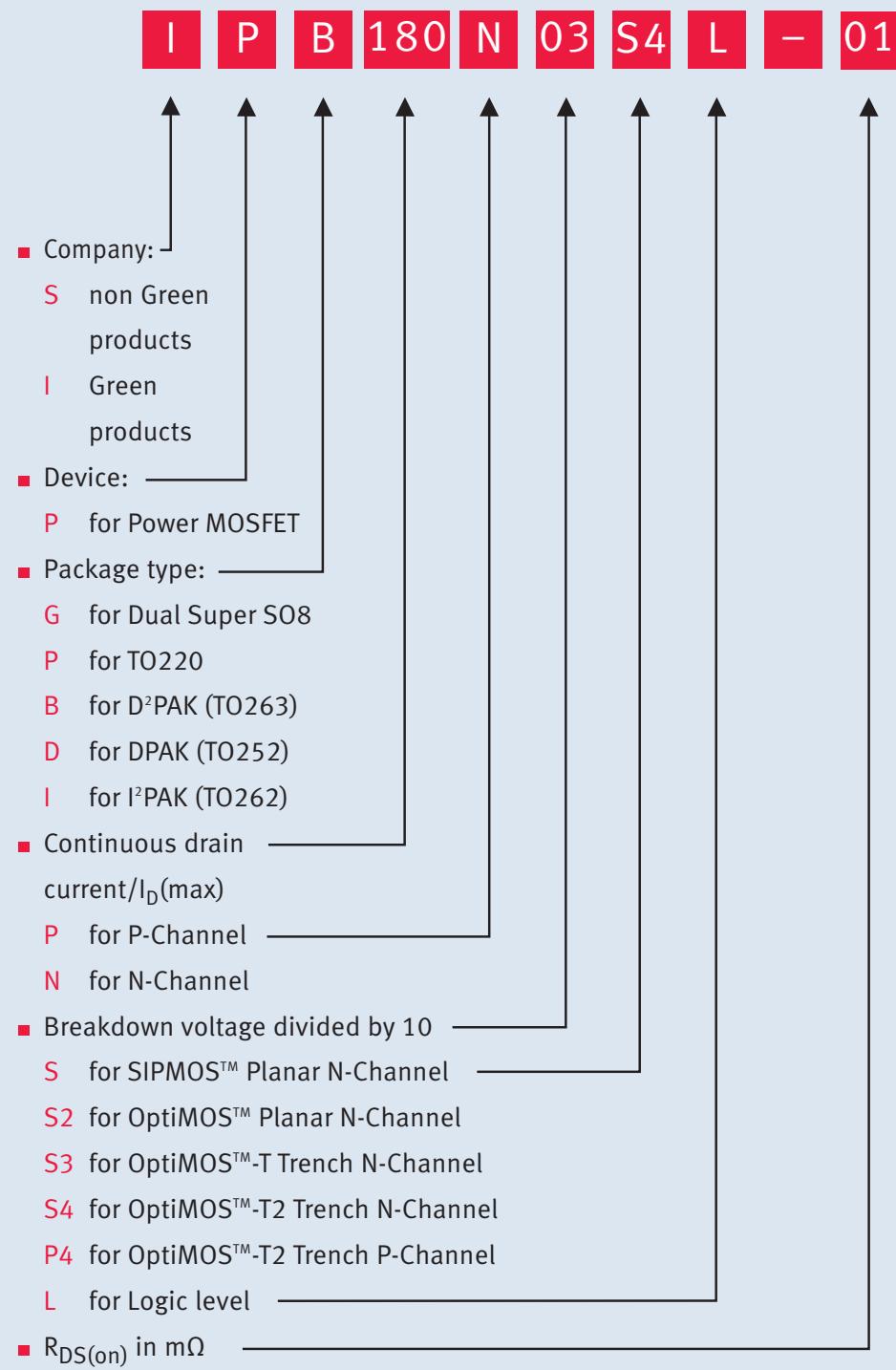
Dual OptiMOS™	Green	R _{DS(on)} @ 10V (max.) [mΩ/channel]	I _D [A]	R _{thJC} (max.) [K/W]	Package*
IPG20N06S2L-35	●	35	2 x 20	2.3	⑧
IPG20N06S2L-50	●	50	2 x 20	2.9	⑧
IPG20N06S2L-65	●	65	2 x 20	3.5	⑧
IPG20N06S3L-23	●	23	2 x 20	3.3	⑧
IPG20N06S3L-35	●	35	2 x 20	5	⑧
IPG15N06S3L-45	●	45	2 x 15	7	⑧

* See packages on page 15

About the Package

- Two N-Channel MOSFETs in one package with two isolated leadframes
- One Dual Super SO8 can replace two DPAKs reducing area from 130mm² to 32mm²
- 4x reduction in PCB area and 2x reduction in part count
- Dual Super SO8 can replace two existing OptiMOS™ DPAK products for system level cost reduction (significant PCB area savings)
- Dual Super SO8 has exposed pad heat sink and large source lead, thus provides higher current capabilities than a regular Dual S08 and same R_{th} as DPAK with same chip.
- All Bond wire is 200µm thick for up to 20A current capability

Naming System



N-Channel MOSFETs 30V

OptiMOS™-T2 30V (Trench)

Type	 Green	R _{DS(on)} @ 10V (max.) [mΩ]	I _D [A]	R _{thJC} (max.) [K/W]	Package*
IPB180N03S4L-H0	●	0.9	180	0.6	⑤
IPB180N03S4L-01	●	1.05	180	0.8	⑤
IPD90N03S4L-02	●	2.2	90	1.1	③
IPD90N03S4L-03	●	3.0	90	1.6	③
IPD70N03S4L-04	●	4.3	70	2.2	③
IPD50N03S4L-06	●	5.5	50	2.7	③
IPD40N03S4L-08	●	8.3	40	3.6	③
IPD30N03S4L-09	●	9.0	30	3.6	③
IPD30N03S4L-14	●	13.6	30	4.9	③
IPP80N03S4L-03	●	2.7	80	1.1	①
IPP80N03S4L-04	●	3.6	80	1.6	①
IPP22N03S4L-15	●	14.9	22	4.9	①
IPI80N03S4L-03	●	2.7	80	1.1	②
IPI80N03S4L-04	●	3.6	80	1.8	②
IPI22N03S4L-15	●	14.9	22	4.9	②
IPB80N03S4L-02	●	2.4	80	1.1	④
IPB80N03S4L-03	●	3.3	80	1.6	④
IPB22N03S4L-15	●	14.6	22	4.9	④

OptiMOS™ 30V (Planar)

Type	 Green	R _{DS(on)} @ 10V (max.) [mΩ]	I _D [A]	R _{thJC} (max.) [K/W]	Package*
IPD50N03S2L-06	●	6.4	50	1.1	③
IPD30N03S2L-07	●	6.7	30	1.1	③
IPD50N03S2-07	●	7.3	50	1.1	③
IPD30N03S2L-10	●	10.0	30	1.5	③
IPD30N03S2L-20	●	20.0	30	2.5	③

* See packages on page 15

N-Channel MOSFETs 40V

OptiMOS™-T2 40V (Trench)

Type	 Green	R _{DS(on)} @ 10V (max.) [mΩ]	I _D [A]	R _{thJC} (max.) [K/W]	Package*
<i>NEW!</i> IPB180N04S4-00	●	1.0	180	0.5	(5)
<i>NEW!</i> IPB180N04S4-H0	●	1.1	180	0.6	(5)
<i>NEW!</i> IPB180N04S4-01	●	1.3	180	0.8	(5)
<i>NEW!</i> IPB120N04S4-01	●	1.5	120	0.8	(4)
<i>NEW!</i> IPB160N04S4-H1	●	1.6	160	0.9	(5)
<i>NEW!</i> IPB120N04S4-02	●	1.8	120	0.9	(4)
<i>NEW!</i> IPB90N04S4-02	●	2.1	90	1.0	(4)
<i>NEW!</i> IPB100N04S4-H2	●	2.4	100	1.3	(4)
<i>NEW!</i> IPB80N04S4-03	●	3.3	80	1.6	(4)
<i>NEW!</i> IPB80N04S4L-04	●	4.0	80	2.1	(4)
<i>NEW!</i> IPB80N04S4-04	●	4.2	80	2.1	(4)
<i>NEW!</i> IPB70N04S4-06	●	6.2	70	2.6	(4)
<i>NEW!</i> IPB45N04S4L-08	●	7.4	45	3.3	(4)
<i>NEW!</i> IPP/I120N04S4-01	●	1.8	120	0.8	(1), (2)
<i>NEW!</i> IPP/I120N04S4-02	●	2.1	120	0.9	(1), (2)
<i>NEW!</i> IPP/I90N04S4-02	●	2.4	90	1.0	(1), (2)
<i>NEW!</i> IPP/I100N04S4-H2	●	2.7	100	1.3	(1), (2)
<i>NEW!</i> IPP/I80N04S4-03	●	3.6	80	1.6	(1), (2)
<i>NEW!</i> IPP/I80N04S4L-04	●	4.3	80	2.1	(1), (2)
<i>NEW!</i> IPP/I80N04S4-04	●	4.5	80	2.1	(1), (2)
<i>NEW!</i> IPP/I70N04S4-06	●	6.6	70	2.6	(1), (2)
<i>NEW!</i> IPD100N04S4-02	●	2.0	100	1.0	(3)
<i>NEW!</i> IPD90N04S4-02	●	2.4	90	1.0	(3)
<i>NEW!</i> IPD90N04S4-03	●	3.1	90	1.6	(3)
<i>NEW!</i> IPD90N04S4L-04	●	3.8	90	2.1	(3)
<i>NEW!</i> IPD90N04S4-04	●	4.1	90	2.1	(3)
<i>NEW!</i> IPD90N04S4-05	●	5.2	90	2.3	(3)
<i>NEW!</i> IPD75N04S4-06	●	5.9	75	2.6	(3)
<i>NEW!</i> IPD50N04S4L-08	●	7.1	50	3.3	(3)
<i>NEW!</i> IPD50N04S4-08	●	7.6	50	3.3	(3)
<i>NEW!</i> IPD50N04S4-10	●	9.7	50	3.7	(3)

* See packages on page 15

N-Channel MOSFETs 40V

OptiMOS™-T 40V (Trench)

Type	Green	$R_{DS(on)}$ @ 10V (max.) [mΩ]	I_D [A]	R_{thJC} (max.) [K/W]	Package*
IPD90N04S3-04	●	3.6	90	1.1	(3)
IPD80N04S3-06	●	5.2	90	1.5	(3)
IPD70N04S3-07	●	6.0	82	1.9	(3)
IPD50N04S3-08	●	7.5	50	2.2	(3)
IPD50N04S3-09	●	9.0	50	2.4	(3)
IPD90N04S3-H4	●	4.3	90	1.3	(3)
IPP/I120N04S3-02	●	2.3	120	0.5	(1), (2)
IPP/I100N04S3-03	●	2.8	100	0.7	(1), (2)
IPP/I80N04S3-03	●	3.5	80	0.8	(1), (2)
IPP/I80N04S3-04	●	4.1	80	1.1	(1), (2)
IPP/I80N04S3-06	●	5.7	80	1.5	(1), (2)
IPP/I70N04S3-07	●	6.5	80	1.9	(1), (2)
IPP/I80N04S3-H4	●	4.8	80	1.3	(1), (2)
IPB180N04S3-02	●	1.5	180	0.5	(5)
IPB120N04S3-02	●	2.0	120	0.5	(4)
IPB160N04S3-H2	●	2.1	160	0.7	(5)
IPB100N04S3-03	●	2.5	100	0.7	(4)
IPB80N04S3-03	●	3.2	80	0.8	(4)
IPB80N04S3-04	●	3.8	80	1.1	(4)
IPB80N04S3-06	●	5.4	80	1.5	(4)
IPB70N04S3-07	●	6.2	80	1.9	(4)
IPB80N04S3-H4	●	4.5	80	1.3	(4)

OptiMOS™ 40V (Planar)

Type	Green	$R_{DS(on)}$ @ 10V (max.) [mΩ]	I_D [A]	R_{thJC} (max.) [K/W]	Package*
IPP100N04S2L-03	●	3.3	100	0.5	(1)
IPP80N04S2L-03	●	3.4	80	0.5	(1)
IPP100N04S2-04	●	3.6	100	0.5	(1)
IPP/I80N04S2-04	●	3.7	80	0.5	(1), (2)
IPP/I80N04S2-H4	●	4.0	80	0.5	(1), (2)
IPB160N04S2L-03	●	2.7	160	0.5	(4)
IPB160N04S2-03	●	2.9	160	0.5	(4)
IPB100N04S2L-03	●	3.0	100	0.5	(4)
IPB80N04S2L-03	●	3.1	80	0.5	(4)
IPB100N04S2-04	●	3.3	100	0.5	(4)
IPB80N04S2-04	●	3.4	80	0.5	(4)
IPB80N04S2-H4	●	3.7	80	0.5	(4)

* See packages on page 15

N-Channel MOSFETs 55V

OptiMOS™ 55V (Planar)

Type	Green	$R_{DS(on)}$ @ 10V (max.) [mΩ]	I_D [A]	R_{thC} (max.) [K/W]	Package*
IPD50N06S2L-13	●	12.7	30	1.1	(3)
IPD30N06S2L-13	●	13.0	50	1.1	(3)
IPD50N06S2-14	●	14.4	50	1.1	(3)
IPD30N06S2-15	●	14.7	30	1.1	(3)
IPD30N06S2L-23	●	23.0	30	1.5	(3)
IPD30N06S2-23	●	23.0	30	1.5	(3)
IPD26N06S2L-35	●	35.0	26	2.2	(3)
IPD25N06S2-40	●	40.0	25	2.2	(3)
IPD15N06S2L-64	●	64.0	15	3.2	(3)
IPD14N06S2-80	●	80.0	14	3.2	(3)
IPP100N06S2L-05	●	4.7	100	0.5	(1)
IPP/I80N06S2L-05	●	4.8	80	0.5	(1), (2)
IPP100N06S2-05	●	5.0	100	0.5	(1)
IPP80N06S2-05	●	5.1	80	0.5	(1)
IPP80N06S2L-H5	●	5.3	80	0.5	(1)
IPP80N06S2-H5	●	5.5	80	0.5	(1)
IPP80N06S2L-06	●	6.3	80	0.6	(1)
IPP/I80N06S2-07	●	6.6	80	0.6	(1), (2)
IPP80N06S2L-07	●	7.0	80	0.7	(1)
IPP/I80N06S2-08	●	8.0	80	0.7	(1), (2)
IPP80N06S2L-09	●	8.5	80	0.8	(1)
IPP80N06S2-09	●	9.1	80	0.8	(1)
IPP80N06S2L-11	●	11.0	80	0.95	(1)
IPP77N06S2-12	●	12.0	77	0.95	(1)
IPB100N06S2L-05	●	4.4	100	0.5	(4)
IPB80N06S2L-05	●	4.5	80	0.5	(4)
IPB100N06S2-05	●	4.7	100	0.5	(4)
IPB80N06S2-05	●	4.8	80	0.5	(4)
IPB80N06S2L-H5	●	5.0	80	0.5	(4)
IPB80N06S2-H5	●	5.2	80	0.5	(4)
IPB80N06S2L-06	●	6.0	80	0.6	(4)
IPB80N06S2-07	●	6.3	80	0.6	(4)
IPB80N06S2L-07	●	7.0	80	0.7	(4)
IPB80N06S2-08	●	7.7	80	0.7	(4)
IPB80N06S2L-09	●	8.2	80	0.8	(4)
IPB80N06S2-09	●	8.8	80	0.8	(4)
IPB80N06S2L-11	●	10.7	80	0.95	(4)
IPB77N06S2-12	●	11.7	77	0.95	(4)
BSP603S2L	●	33.0	5.2	20.0	(6)

* See packages on page 15

N-Channel MOSFETs 60V

OptiMOS™-T2 60V (Trench)

Type		R _{DS(on)} @ 10V (max.) [mΩ]	I _D [A]	R _{thJC} (max.) [K/W]	Package*
<i>NEW!</i> IPB180N06S4-H1	●	1.7	180	0.60	(5)
<i>NEW!</i> IPB120N06S4-H1	●	2.1	120	0.60	(4)
<i>NEW!</i> IPB120N06S4-02	●	2.4	120	0.8	(4)
<i>NEW!</i> IPB120N06S4-03	●	2.8	120	0.9	(4)
<i>NEW!</i> IPB90N06S4-04	●	3.7	90	1.0	(4)
<i>NEW!</i> IPB90N06S4L-04	●	3.4	90	1.0	(4)
<i>NEW!</i> IPB80N06S4-05	●	5.4	80	1.4	(4)
<i>NEW!</i> IPB80N06S4-07	●	7.1	80	1.9	(4)
<i>NEW!</i> IPB45N06S4-09	●	9.1	45	2.1	(4)
<i>NEW!</i> IPB80N06S4L-05	●	4.8	80	1.4	(4)
<i>NEW!</i> IPB80N06S4L-07	●	6.4	80	1.9	(4)
<i>NEW!</i> IPB45N06S4L-08	●	7.9	45	2.1	(4)
<i>NEW!</i> IPP/I120N06S4-H1	●	2.4	120	0.6	(1), (2)
<i>NEW!</i> IPP/I120N06S4-02	●	2.8	120	0.8	(1), (2)
<i>NEW!</i> IPP/I120N06S4-03	●	3.1	120	0.9	(1), (2)
<i>NEW!</i> IPP/I90N06S4-04	●	4.0	90	1.0	(1), (2)
<i>NEW!</i> IPP/I90N06S4L-04	●	3.7	90	1.0	(1), (2)
<i>NEW!</i> IPP/I80N06S4-05	●	5.7	80	1.4	(1), (2)
<i>NEW!</i> IPP/I80N06S4-07	●	7.4	80	1.9	(1), (2)
<i>NEW!</i> IPP/I45N06S4-09	●	9.4	45	1.7	(1), (2)
<i>NEW!</i> IPP/I80N06S4L-05	●	5.1	80	1.4	(1), (2)
<i>NEW!</i> IPP/I80N06S4L-07	●	6.7	80	1.9	(1), (2)
<i>NEW!</i> IPP/I45N06S4L-08	●	8.2	45	2.1	(1), (2)
<i>NEW!</i> IPD90N06S4-04	●	3.8	90	1.0	(3)
<i>NEW!</i> IPD90N06S4L-03	●	3.5	90	1.0	(3)
<i>NEW!</i> IPD90N06S4-05	●	5.1	90	1.4	(3)
<i>NEW!</i> IPD90N06S4-07	●	6.9	90	1.9	(3)
<i>NEW!</i> IPD50N06S4-09	●	9.0	50	2.1	(3)
<i>NEW!</i> IPD90N06S4L-05	●	4.6	90	1.4	(3)
<i>NEW!</i> IPD90N06S4L-06	●	6.3	90	1.9	(3)
<i>NEW!</i> IPD50N06S4L-08	●	7.8	50	2.1	(3)
<i>NEW!</i> IPD50N06S4L-12	●	12.0	50	3.0	(3)
<i>NEW!</i> IPD30N06S4L-23	●	23.0	30	4.2	(3)
<i>NEW!</i> IPD25N06S4L-30	●	30.0	25	5.1	(3)

* See packages on page 15

N-Channel MOSFETs 75V and 100V

OptiMOS™ 75V (Planar)

Type	Green	$R_{DS(on)}$ @ 10V (max.) [mΩ]	I_D [A]	R_{thJC} (max.) [K/W]	Package*
IPD30N08S2L-21	●	20.5	30	1.1	③
IPD30N08S2-22	●	21.5	30	1.1	③
IPD22N08S2L-50	●	50.0	22	2.0	③
IPP100N08S2L-07	●	6.8	100	0.5	①
IPP100N08S2-07	●	7.1	100	0.5	①
IPP80N08S2L-07	●	7.1	80	0.5	①
IPP80N08S2-07	●	7.4	80	0.5	①
IPB100N08S2L-07	●	6.5	100	0.5	④
IPB100N08S2-07	●	6.8	100	0.5	④
IPB80N08S2L-07	●	6.8	80	0.5	④
IPB80N08S2-07	●	7.1	80	0.5	④

OptiMOS™-T 100V (Trench)

Type	Green	$R_{DS(on)}$ @ 10V (max.) [mΩ]	I_D [A]	R_{thJC} (max.) [K/W]	Package*
IPD70N10S3-12	●	11.1	70	1.2	③
IPD70N10S3L-12	●	11.5	70	1.2	③
IPD50N10S3L-16	●	15	50	1.5	③
IPD35N10S3L-26	●	24	35	2.1	③
IPD30N10S3L-34	●	31	30	2.6	③
IPP/I100N10S3-05	●	5.1	100	0.5	①, ②
IPP/I70N10S3-12	●	11.6	70	1.2	①, ②
IPP/I70N10S3L-12	●	12.1	70	1.2	①, ②
IPP/I50N10S3L-16	●	15.7	50	1.5	①, ②
IPB100N10S3-05	●	4.8	100	0.5	④
IPB70N10S3-12	●	11.3	70	1.2	④
IPB70N10S3L-12	●	11.8	70	1.2	④
IPB50N10S3L-16	●	15.4	50	1.5	④

* See packages on page 15

P-Channel MOSFETs 30V

OptiMOS™-T2 P-Channel 30V (Trench)

Type	 Green	R _{DS(on)} @ 10V (max.) [mΩ]	I _D [A]	R _{thJC} (max.) [K/W]	Package*
<i>NEW!</i> IPD90P03P4L-04	●	4.1	90	1.1	③
<i>NEW!</i> IPD80P03P4L-07	●	6.8	80	1.7	③
<i>NEW!</i> IPD50P03P4L-11	●	10.5	50	2.6	③
<i>NEW!</i> IPD90P03P4-04	●	4.5	90	1.1	③
<i>NEW!</i> IPB80P03P4L-04	●	4.1	80	1.1	④
<i>NEW!</i> IPB80P03P4L-07	●	6.9	80	1.7	④
<i>NEW!</i> IPB45P03P4L-11	●	10.8	45	2.6	④
<i>NEW!</i> IPB80P03P4-05	●	4.7	80	1.1	④
<i>NEW!</i> IPP/I80P03P4L-04	●	4.4	80	1.1	①, ②
<i>NEW!</i> IPP/I80P03P4L-07	●	7.2	80	1.7	①, ②
<i>NEW!</i> IPP/I45P03P4L-11	●	11.1	45	2.6	①, ②
<i>NEW!</i> IPP/I80P03P4-05	●	5.0	80	1.1	①, ②

OptiMOS™-T2 P-Channel 40V (Trench)

Type	 Green	R _{DS(on)} @ 10V (max.) [mΩ]	I _D [A]	R _{thJC} (max.) [K/W]	Package*
<i>NEW!</i> IPD50P04P4L-11	●	11.1	50	2.6	③
<i>NEW!</i> IPD70P04P4-09	●	9.3	70	2.0	③
<i>NEW!</i> IPD90P04P4-05	●	4.8	90	1.1	③
<i>NEW!</i> IPB70P04P4-09	●	9.4	70	2.0	④
<i>NEW!</i> IPB80P04P4-05	●	4.9	80	1.1	④
<i>NEW!</i> IPB180P04P4L-02	●	2.4	180	0.8	⑤
<i>NEW!</i> IPP/IPI70P04P4-09	●	9.7	70	2.0	①, ②
<i>NEW!</i> IPP/IPI80P04P4-05	●	5.2	80	1.1	①, ②

* See packages on page 15

Dual MOSFETs

Dual N-Channel OptiMOS™ 55V (Trench)

Type	 Green	R _{DS(on)} @ 10V (max.) [mΩ]	I _D [A]	R _{thJC} (max.) [K/W]	Package*
IPG20N06S3L-23	●	2 x 23.0	20	3.3	⑧
IPG20N06S3L-35	●	2 x 35.0	20	5.0	⑧
IPG15N06S3L-45	●	2 x 45.0	15	7.0	⑧

Dual N-Channel OptiMOS™ 55V (Planar)

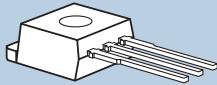
Type	 Green	R _{DS(on)} @ 10V (max.) [mΩ]	I _D [A]	R _{thJC} (max.) [K/W]	Package*
BS0604NS2	●	2 x 35.0	5	50.0	⑦
<i>NEW!</i> IPG20N06S2L-35	●	2 x 35.0	20	2.3	⑧
<i>NEW!</i> IPG20N06S2L-50	●	2 x 50.0	20	2.9	⑧
<i>NEW!</i> IPG20N06S2L-65	●	2 x 65.0	20	3.5	⑧

Dual N- + P-Channel OptiMOS™-T 30V + 55V (Trench)

Type	 Green	R _{DS(on)} @ 10V (max.) [mΩ]	I _D [A]	R _{thJC} (max.) [K/W]	Package*
BTS 7904B	●	P-Channel 12.4 N-Channel 11.4	40	P-Channel 1.3 N-Channel 1.8	⑨
BTS 7904S	●	P-Channel 12.7 N-Channel 11.7	40	P-Channel 1.3 N-Channel 1.8	⑩

* See packages on page 15

Packages

1	PG-T0220-3	2	PG-T0262-3 (I ² PAK)
			
3	PG-T0252-3 (DPAK)	4	PG-T0263-3 (D ² PAK)
			
5	PG-T0263-7 (D ² PAK 7pin)	6	PG-SOT-223
			
7	PG-DSO-8	8	PG-TDSON-8 (Dual Super SO8)
			
9	PG-T0263-5 (TO220-5 (SMD))	10	PG-T0220-5
			

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