



***Supertex inc.***  
***Short Form Catalog***  
***2007***

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***High Voltage, Mixed Signal Integrated Circuits and MOSFETs***

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### **Supertex inc.**

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**Supertex inc. Short Form Catalog**

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**Supertex** is a technology-based producer of high voltage analog and mixed signal semiconductor devices and integrated circuits focused in high voltage interface products for use in key products for the telecommunications, networking systems, flat panel displays, medical and industrial electronics industries.

Since our inception in 1976, we have been a leader in developing and utilizing advanced, high-performance process technologies, such as our high voltage proprietary

HVCMOS® technology, a merging of the CMOS and DMOS process technologies onto one chip. Our advanced HVCMOS® ICs provide performance and cost benefits that give our customers a competitive edge in developing their products.

The Supertex 6-inch submicron wafer fab provides a broad offering of CMOS and CCD technologies capabilities that meet the diverse needs of our customers.

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## ***New Products Since Short Form Catalog 2005***

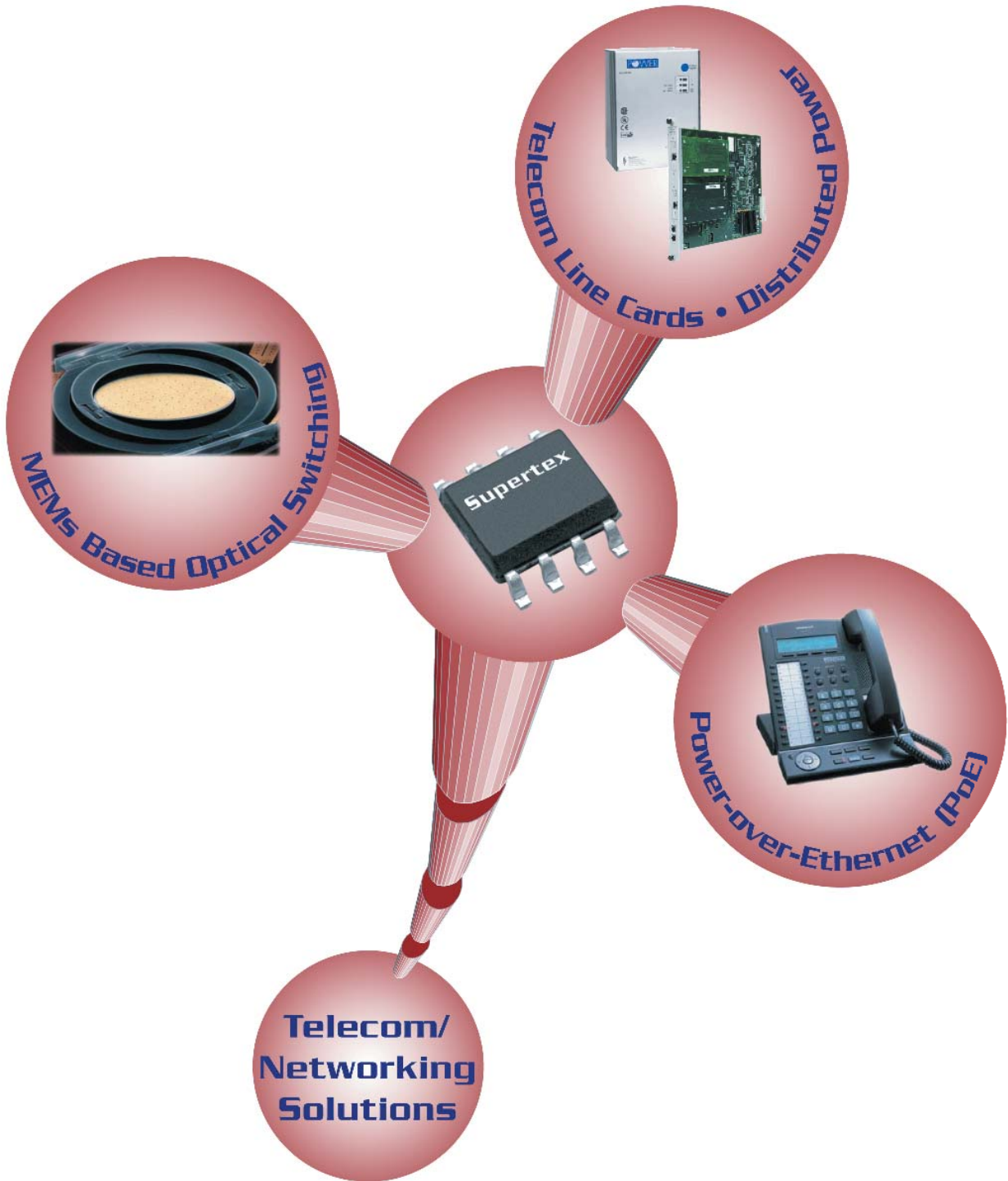
<b><u>Part No.</u></b>	<b><u>Description</u></b>
CL2	Temperature Compensated, Constant Current LED Driver IC
CL6	Linear 100mA Constant Current LED Driver IC
CL7	Linear 100mA Constant Current LED Driver IC with Enable
CL25	25mA Temperature Compensated Constant Current LED Driver IC
HV219	8-Channel Low Charge Injection High Voltage Analog Switch
HV2201	8-Channel Low Charge Injection High Voltage Enhanced Analog Switch
HV2301	8-Channel Low Charge Injection High Voltage Enhanced Analog Switch with Bleed Resistors
HV2601	16-Channel Low Charge Injection High Voltage Analog Switch
HV2701	16-Channel Low Charge Injection High Voltage Analog Switch with Bleed Resistors
HV582	Data Driver with 96 High Voltage Push-Pull Outputs
HV7100	High Voltage Multi-Fan Driver/ Controller
HV732	High Speed , High Voltage, Integrated Ultrasound Pulser
HV7800	Wide Voltage Range, High Side Current Monitor
HV835	High Brightness Dual EL Lamp Drivers for Low Noise Applications
HV839	High Brightness EL Lamp Drivers with High Output Voltage Regulation
HV841	High Brightness EL Lamp Drivers with High Output Voltage Regulation
HV843	High Brightness EL Lamp Drivers for Low Noise Applications
HV845	High Brightness EL Lamp Drivers for Low Noise Applications
HV852	High Voltage, Low Noise, Inductorless EL Lamp Driver
HV856	High Voltage, Low Noise, Triple EL Lamp Driver
HV857L	High Brightness EL Lamp Drivers for Low Noise Applications
HV858	High Brightness Triple EL Lamp Drivers for Low Noise Applications
HV859	High Brightness EL Lamp Drivers for Low Noise Applications
HV860	High Brightness EL Lamp Drivers for Low Noise Applications
HV9911	Closed Loop LED Driver with High Current Accuracy
HV9921	3-Pin Switch Mode LED Driver IC - 20mA
HV9922	3-Pin Switch Mode LED Driver IC - 50mA
HV9923	3-Pin Switch Mode LED Driver IC - 30mA
HV9925	Programmable-current LED Lamp Driver IC with PWM Dimming
HV9931	LED Driver with Power Factor Correction
MD1211	High Speed Dual MOSFET Driver ICs
MD1810	High Performance Quad MOSFET Driver ICs
MD1811	High Performance Quad MOSFET Driver ICs
MD1812	High Performance Quad MOSFET Driver ICs with Damping Control
MD1813	High Performance Quad MOSFET Driver ICs with Damping Control
PS12	Quad Power Sequencing Controller
SR086/SR087	Adjustable, Inductorless Off-Line Switching Regulators



# ***Products by Market***

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# Telecom/Networking



**Telecom/Networking Solutions****Hotswap/Inrush Current Limiter/Circuit Breaker/Power Sequencing IC's**

HV100/HV101	PS10/PS11	PS12	-	-
-	-	-	-	-

**Power-over-Ethernet PoE Controller**

HV110	-	-	-	-
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**Off-Line Bias Supplies, High Voltage Linear Regulators**

LR8	LR12	LR645	LR745	SR086
SR087	-	-	-	-

**AC/DC, DC/DC Converters (PWM IC's)**

HV9100	HV9102	HV9103	HV9110	HV9112
HV9113	HV9120	HV9123	HV9608	-

**MEMs Drivers****Analog Controller Amplifiers**

HV254	HV256	HV257	-	-
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**Digital Control**

HV507	HV513	HV514	HV574	HV57708
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*Custom - Contact Supertex***Ring Generator IC's**

HV430	HV440	HV441	HV450	HV461
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**Hook Switch, Level Translator ICc**

HT0440	HT0638	HT0740	HT18	HT19
--------	--------	--------	------	------

**MOSFETs**

DN2470	DN2530	DN2535	DN2540	DN3125
DN3135	DN3145	DN3525	DN3535	DN3545
LND150	LND250	TN0702	TN2130	TN2501
TN2524	TN2540	TN2640	TN5335	TP2435
TP2520	TP2522	TP2540	TP2635	TP2640
VN2450	VP2450	-	-	-

**Fan Driver/Controllers**

HV7100	-	-	-	-
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# Imaging





## Imaging Solutions

### Display Drivers

#### Electroluminescent (Column)

HV5308B	HV5408B	HV57708	HV57908	HV633
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#### Electroluminescent (Row)

HV57009	HV7224	-	-	-
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#### Plasma (Column)

HV57009	HV582	HV583	HV7620	-
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#### Vacuum Fluorescent

HV518	HV574	HV57708	HV57908	HV5812
HV6810	-	-	-	-

#### LCD Shutter

HV508	-	-	-	-
-------	---	---	---	---

#### Poly Cholesteric

HV6008	HV633	-	-	-
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### Printer Head Drivers

#### Inkjet

HV3418	HV4522	HV4622	HV5522	HV5622
HV5630	HV574	HV57708	HV57908	HV582
HV583	-	-	-	HV3922-

#### Electrostatic

HV4522	HV4622	HV507	HV5530	HV5630
--------	--------	-------	--------	--------

### EL Backlight Drivers

HV809	HV823	HV825	HV826	HV830
HV831	HV832	HV833	HV835	HV839
HV841	HV843	HV845	HV850	HV852
HV856	HV857	HV857L	HV858	HV859
HV860	-	-	-	-

### Off-Line High Voltage LED Drivers

CL2	CL25	CL6	CL7	HV9910
HV9911	HV9921	HV9922	HV9923	HV9925
HV9931	LR8	LR12	SR086	SR087

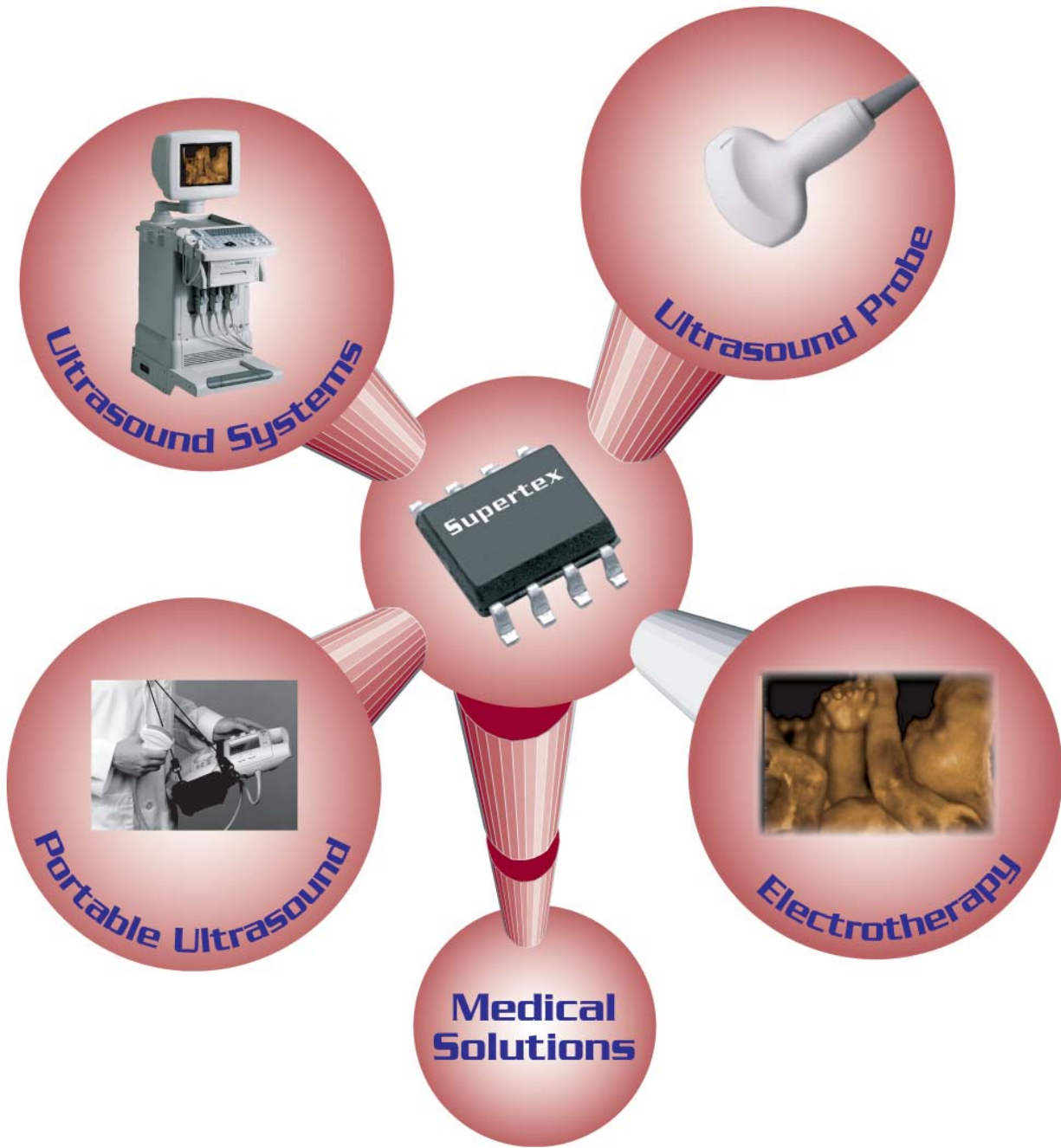
### Battery Powered LED Drivers

AT9933	HV9903	HV9910	HV9911	HV9930-
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### Custom Drivers

Contact Supertex

## **Medical Ultrasound**



## Medical Ultrasound Solutions

### Analog High Voltage Mux Switches

HV20220	HV20320	HV20720	HV20822	HV209
HV214	HV219	HV220	HV2201	HV230
HV2301	HV232	HV238	HV2601	HV2701

### MOSFETs

#### Ultrasound Output Stage

TC2320	TC6320	TC7320	TD9944	TN2425
TN2524	TN2640	TN5325	TP2424	TP2520
TP2522	TP5322	-	-	-

#### Ultrasound Gate Driver Stage

MD1210	MD1211	MD1711	MD1810	MD1811
MD1812	MD1813	TP2104	VN2110	VP2110
-	-	-	-	-

### Custom High Voltage Amplifiers/Pulsers

HV732	-	-	-	-
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## **Consumer/Industrial/Computing**





**Consumer/Industrial/Computing Solutions****EL Backlight Drivers**

HV809	HV823	HV825	HV826	HV830
HV831	HV832	HV833	HV835	HV839
HV841	HV843	HV845	HV850	HV852
HV856	HV857	HV857L	HV858	HV859
HV860	-	-	-	-

**Off-Line High Voltage LED Drivers**

CL2	CL25	CL6	CL7	HV9910
HV9911	HV9921	HV9922	HV9923	HV9925
HV9931	LR8	LR12	SR086	SR087

**Battery Powered LED Drivers**

AT99331	HV9903	HV9910	HV9911	HV9930
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**High Side Current Monitor**

HV7800	-	-	-	-
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**Hotswap/Inrush Current Limiter/Circuit Breaker/Power Sequencing IC's**

HV100/HV101	PS10/PS11	PS12	-	-
-	-	-	-	-

**AC/DC, DC/DC Converters (PWM ICs)**

HV9100	HV9102	HV9103	HV9110	HV9112
HV9113	HV9120	HV9123	HV9608	-

**Off-Line Bias Supplies, High Voltage Linear Regulators**

LR645	LR745	LR8	LR12	SR086
SR087	-	-	-	-

**Ring Generator ICs**

HV430	HV440	HV441	HV450	HV461
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**Hook Switch, Level Translator ICs**

HT0440	HT0638	HT0740	HT18	HT19
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**Piezo Drivers**

HV507	HV513	HV514	-	-
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## Consumer/Industrial/Computing Solutions (continued)

<b>MOSFETs</b>				
2N6660	2N6661	2N7000	2N7002	2N7008
DN2470	DN2530	DN2535	DN2540	DN3125
DN3135	DN3145	DN3525	DN3535	DN3545
LND250	TC2320	TC6320	TC7320	TD9944
TN0104	TN0106	TN0110	TN0604	TN0606
TN0610	TN0620	TN0702	TN1506	TN1510
TN2106	TN2124	TN2130	TN2425/TN2425TG	TN2435
TN2501	TN2504	TN2510	TN2524	TN2535
TN2540	TN2640	TN5325	TN5335	TP0604
TP0606	TP0610	TP0620	TP2104	TP2424
TP2435	TP2502	TP2510	TP2520	TP2522
TP2535	TP2540	TP2635	TP2640	TP5322
TP5335	VN0104	VN0106	VN0300	VN0550
VN0606	VN0808	VN10K	VN1206	VN1506
VN1509	VN1550	VN2106	VN2110	VN2210
VN2222	VN2222LL	VN2224	VN2406	VN2410
VN2450	VN2460	VN3205	VN3515	VN4012
VP0104	VP0106	VP0109	VP0550	VP0808
VP1504	VP1506	VP1509	VP1550	VP2106



# ***Product Selector Guides***

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## Product Selector Guides

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## Hotswap Controller ICs/Inrush Current Limiters/ Circuit Breaker ICs

HV1xx and HV3xx hotswap product families are designed to control the inrush current while eliminating any undesirable glitches resulting from hot insertion of the circuit cards into live backplanes. The award winning HV1xx, requires no external components, except a single pass element to operate. It utilizes an innovative and proprietary design that normalizes the hotswap period, regardless of pass element and load capacitor resulting in consistent hotswap operations. The HV3xx families offer programmable inrush control, programmable circuit breaker current (internal 100mv sense) as well as programmable input under and over voltage thresholds. An open drain Power Good (PWRGD) signal is generated once all conditions have been satisfied.

Device	UV\OV Protection	Circuit Breaker	Sense Resistor	Auto Retry	Type	Power Good Signal	Min Input Voltage (V)	Max Input Voltage (V)	Max Supply Current (mA)	Number of Channels	Package Leads	Package Options	Notes
HV100	UV	Until C-Load Fully Charged	-	Yes	Negative Rail Break, High Voltage	-	38/34	72	1	1	3	K5, K6	1
HV101	UV	Until C-Load Fully Charged	-	Yes	Negative Rail Break, High Voltage	-	16/12	72	1	1	3	K5, K6	2

**Notes:**

1. HV100: Min Input Voltage set by UV Lockout (38V on, 34V off)
2. HV101: Min Input Voltage set by UV Lockout (16V on, 12V off)

## Power-over-Ethernet (PoE) Interface Controller

Device	V <sub>IN</sub>	I <sub>OUT</sub>	I <sub>LIMIT</sub>	Overcurrent Timer	Package Leads	Package
HV110	36V - 56V	350mA	400mA	60ms	5	K4

## LED Driver ICs

Device	+V <sub>IN</sub>		Dimming	Switch	Output Current Max (mA)	Package Leads	Package Options	Notes
	Min V (V)	Max V (V)						
AT9933	9.0	100	PWM/Linear	External	-	8	NG	-
CL2	5.0	90	No	Internal	20	3	K4, N3, N8	2
CL25	5.0	90	No	Internal	25	3	N3	2
CL6	6.5	90	No	N/A	100	3	K4, N5	-
CL7	6.5	90	No	N/A	100	8	SG	-
HV9901	10	450	PWM/Linear	External	-	16	P, NG	1
HV9903	1.8	12.5	PWM/Linear	Internal	40	6	K6	-
HV9910	8.0	450	PWM/Linear	External	-	8	P, LG	1
						16	NG	
HV9911	9.0	250	PWM/Linear	External	-	16	NG	-
HV9921	85	264	No	Internal	20	3	N3, N8	-
HV9922	85	264	No	Internal	50	3	N3, N8	-
HV9923	85	264	No	Internal	30	3	N3, N8	-
HV9925	85	264	PWM	Internal	50	8	SG	-
HV9930	9.0	200	PWM/Linear	External	-	8	LG	-
HV9931	8.0	450	PWM/Linear	External	-	8	LG	-
LR8	13	450	Linear	Internal	10	3	K4, N3, N8	-
LR12	13	100	Linear	Internal	50	3	N3, K4	-
						8	LG	

## Notes:

1. Based on external component values

2. The CL2, and CL25 are 2-terminal linear current limiters. The supply voltage may be as high as 90V + LED voltage drop.

## **High Voltage Electroluminescent Backlight Driver ICs**

The Supertex line of high voltage EL backlighting lamp driver integrated circuits utilize the proprietary BiCMOS®/DMOS technology, which allows for operation at very low input voltages. This family of inverters is designed to drive electroluminescent (EL) lamps for backlighting with minimal external components, and is capable of driving loads from 1nF to 50nF depending on the brightness required. Applications include watches, pagers, cellular phones, PDAs, remote controls, and portable instruments.

Device Number	Input Voltage Range		Nominal Output Voltage (V)	Maximum Switch Resistance (ohms)	Output Regulation	Driver	Demo Boards	Max Lamp Size per Driver (in <sup>2</sup> )	Package Leads	Package Options	Notes
	Low V (V)	High V (V)									
HV809	50	200	±50 - ±200	-	N/A	Single	Yes	100	8 7	LG K2	1,2
HV823	2.0	9.5	±90	4.0	Yes	Single	Yes	23	8	LG	2
HV825	1.0	1.6	±75	15	No	Single	Yes	3.0	8	LG, MG	2
HV826	1.8	3.5	±80	6.0	Yes	Single	Yes	4.0	8	LG, MG	2
HV830	2.0	9.5	±100	4.0	Yes	Single	Yes	25	8	LG	2,3
HV831	2.0	5.0	±80	6.0	Yes	Dual	Yes	1.75	-	MG	4,5
HV832	2.0	5.0	±90	6.0	Yes	Dual	Yes	1.75	8	MG	2
HV833	1.8	6.5	±90	4.0	Yes	Single	Yes	12	8	MG	-
HV835	2.0	5.8	±80	10	Yes	Dual	Yes	3.5	10	K7	-
HV839	2.0	5.8	±90	6.0	Yes	Dual	Yes	3.5	10	MG, K6	4,5
HV841	2.0	5.8	±100	6.0	Yes	Dual	No	3.5	10	MG, K6	4,5
HV843	2.0	5.8	±90	10.0	Yes	Dual	Yes	3.5	10	K6	-
HV845	2.0	5.8	±90	10.0	Yes	Dual	Yes	3.5	12	K6	-
HV850	3.0	4.2	±70	-	Yes	Single	Yes	2.0	8	MG	6
HV852	2.4	5.0	±80	-	Yes	Single	Yes	1.5	8 10	MG K7	-
HV857	1.8	5.0	±95	6.0	Yes	Single	Yes	5.0	8	MG	2
HV856	1.8	6.5	±105	6.0	Yes	Triple	No	3.0	10	K7	7
HV857L	1.8	5.0	±95	6.0	Yes	Single	Yes	5.0	8	MG, K7	-
HV858	1.8	6.5	±95	6.0	Yes	Triple	Yes	3.0	10	MG	7
HV859	1.8	5.0	±105	6.0	Yes	Single	Yes	5.0	8	MG, K7	-
HV860	2.5	4.5	±110	6.0	Yes	Single	Yes	5.0	12	K7	-

**Notes:**

1. Suitable for rectified off-line voltages or when high voltage (50-200) is available.
2. Output Regulation is Pin selectable.
3. A demo board for the HV830 can be easily created by replacing the HV823 IC on the HV823DB1 demo board.

4. 10 pin MSOP and MLP Packages.
5. Product supplied on 2500 piece carrier tape reels only.
6. Inductorless, Charge Pump Scheme.
7. Up to 3.0in<sup>2</sup> (1.0 in<sup>2</sup> each).



## Relay Driver ICs

Device Number	+V <sub>IN</sub>		Max I <sub>IN</sub>	Oscillator Frequency*			Max Output Duty Cycle	Typical Current Sense		External Adjustable Regulator Output		Package Leads	Package Options
	Min	Max		Min	Max	fsync - Max		Pull-In	Hold	Voltage	Current		
HV9901	10V	450V	2mA	20kHz	140kHz	150kHz	99.50%	0.883V	Adjustable	2.0 - 5.50V	1mA	16	NG, P

## High Voltage Linear Switchmode Power Supply ICs

### SMPS Start-Up/Linear Regulator ICs

The LR8 and LR12 have adjustable output voltage.

Device Number	+V <sub>IN</sub>		Typical Output Voltage (V)	Max Output Current	Typical Regulation		Notes	Package Leads	Package Options
	Min V (V)	Max V (V)			Line	Load			
LR8	13	450	1.2 - 440	10mA	0.003%/V	0.15%/mA	-	3	K4, N3, N8
LR12	13	100	1.2 - 88	50mA	0.003%/V	0.06%/mA	-	3	K4, N3
								8	LG
LR645	15	450	10	3mA	0.0001%/V	0.5%/mA	1	3	N3, N5, N8
								8	LG
LR745	25	450	20	4mA	0.0001%/V	0.5%/mA	-	3	N3, N8

Notes:

1. Output current limited by power dissipation. Current rating may be significantly enhanced, up to 150mA by using depletion-mode MOSFET.

### Inductorless Off-Line Regulator ICs

The SR08x family of products is high input voltage, inductorless switching regulators featuring dual, non-isolated outputs. Its high input voltage is designed to operate from an unfiltered full wave rectified 120VAC or 240VAC. The versatile design requires neither an inductor nor high voltage input capacitor to achieve regulation. This device is suitable for standby power, start-up circuits, off-line power supplies, lighting controls and a variety of white good appliances.

Part Number	Max HV <sub>IN</sub> (V)	Typical V <sub>TH</sub> (V)	Gate to Ground Clamp Voltage		Typical Regulated Output Voltage (V)	Typical Regulated Output Current (mA)	Package Leads	Package
			Min (V)	Max (V)				
SR086	700	45	18	24	3.3	50	8	SG
SR087	700	45	18	24	5.0	50	8	SG

## **High Voltage Switchmode Power Supply ICs Currentmode PWM Controllers**

Device Number	+V <sub>in</sub>		Duty Cycle	Switch	MOSFET Switch BV <sub>DSS</sub> (V)	MOSFET Switch R <sub>DS(ON)</sub> (Ω)	Package Leads	Package Options	Notes
	Min V (V)	Max V (V)							
HV9100	10	70	49%	Internal	150	5.0	14	P	-
							20	PJ	
HV9102	10	120	49%	Internal	200	7.0	14	P	-
							20	PJ	
HV9103	10	120	99%	Internal	200	7.0	14	P	-
							20	PJ	
HV9110	10	120	49%	External	-	-	14	P, NG	-
							20	PJ	
HV9112	9	80	49%	External	-	-	14	P, NG	-
							20	PJ	
HV9113	10	120	99%	External	-	-	14	P, NG	-
							20	PJ	
HV9120	10	450	49%	External	-	-	16	P, NG	-
							20	PJ	
HV9123	10	450	99%	External	-	-	16	P, NG	-
							20	PJ	
HV9608	12	250	95%	External	-	-	16	TS	1

*Notes:*

1. Frequency modulated

## High Voltage Driver/Interface ICs

### Sink Only Outputs - Open Drain N-Channel

The Supertex line of high voltage integrated circuits is based on the proprietary HVCOMOS® technology, which combines low power CMOS control logic with high voltage DMOS output switches. Products include open drain, push-pull and bilateral inputs, providing solutions to many applications where multiple high voltage switches need to be controlled at high speeds with low power consumption. Flat panel displays, non-impact printers and plotters are some of the applications benefiting from Supertex HVCOMOS® products.

Device Number	Output Channels	Direction	Logic Configuration	Output		Package Leads	Package Options
				Operating Voltage (V)	Current per Channel (mA)		
HV5122	32	CCW	Serial to parallel converter with output enable and strobe	225	+100	44	DJ, PG, PJ
HV5222	32	CW	Serial to parallel converter with latches, polarity, and blanking	225	+100	44	DJ, PG, PJ
HV5522	32	CCW	Serial to parallel converter with latches, polarity, and blanking	220	+100	44	DJ, PG, PJ
HV5530	32	CCW	Serial to parallel converter with latches, polarity, and blanking	300	+100	44	DJ, PG, PJ
HV5622	32	CW	Serial to parallel converter with latches, polarity, and blanking	220	+100	44	DJ, PG, PJ
HV5630	32	CW	Serial to parallel converter with latches, polarity, and blanking	300	+100	44	DJ, PG, PJ

### Source Only Outputs - Open Drain P-Channel

Device Number	Output Channels	Direction	Logic Configuration	Output		Package Leads	Package Options	Notes
				Operating Voltage	Current per Channel			
HV3922	4C	W	Pin Diode Driver	-220V	-1.7mA	20	C	1
						28	DJ	
HV4522	32	CCW	Serial to parallel converter with latches, polarity, and blanking	-220V	-60mA	44	PG, PJ	-
HV4622	32	CW	Serial to parallel converter with latches, polarity, and blanking	-220V	-60mA	44	PG, PJ	-
HV57009	64	B	Current controlled driver with latches and blanking, two 32-bit shift registers	-85V	Controllable to -2mA	80	DG, PG	-

**Note:**

1. For push pull operation, use the VN222NC Quad MOSFET array.

## High Voltage Driver/Interface ICs

### Source Sink Outputs - Push-Pull

Device Number	Output Channels	Direction	Logic Configuration	Output Voltage	Output Current per Channel	Output Structure	Clock Rate	Bits	Outputs On	Package Leads	Package Options
HV3418	64	B	Serial to parallel converter with latches, polarity, and blanking	+180V	±5.0mA	Push-Pull	6MHz	1	All	80	DG, PG
HV507	64	B	H-Bridge output with two output voltage level selections and polarity	+300V	±1.0mA	Push-Pull	8MHz	1	All	80	PG
HV508	1		Serial to parallel converter with latches, polarity, and blanking	+45V	-400mA HV +10mA LV +400mA sink	Push-Pull H-Bridge	-	-	-	8	LG
HV510	12	B	Serial to parallel converter with latches, polarity, and blanking	+240V	+1.0mA / -0.5mA	Push-Pull	8MHz	1	All	24	WG
HV513	8	CW	Serial to parallel converter with latches, polarity, and blanking HI-Z and short circuit detect	+250V	±20mA	Push-Pull	8MHz	1	All	24	WG
HV514	8	CW	Serial to parallel converter with data latches, channel polarity select, and blanking	+250V	±20mA	Push-Pull	8MHz	1	All	24	WG
HV518	32	CW	Serial to parallel converter with latches, enable, and strobe	+80V	-25mA / +1.0mA	Push-Pull	6MHz	1	All	40	P
										44	PJ
HV5308B	32	CW	Serial to parallel converter with latches, and output enable	+80V	±20mA	Push-Pull	8MHz	1	All	44	DJ, PG, PJ
HV5408B	32	CCW	Serial to parallel converter with latches, and output enable	+80V	±20mA	Push-Pull	8MHz	1	All	44	DG, PG, PJ
HV574	80	B	Serial to parallel converter with latches, polarity, and blanking	+80V	+15mA / -30mA	Push-Pull	25MHz	4	All	100	PG
HV57708	64	B	EL driver with latches, polarity, and blanking with four 16-bit shift registers	+80V	-15mA / +12mA	Push-Pull	6MHz	4	All	80	DG,PG
HV57908	64	B	EL or plasma driver w/ latches, blanking, polarity, and single shift register	+80V	-15mA / +12mA	Push-Pull	8MHz	1	All	80	DG, PG
HV5812	20	CW	Serial to parallel converter with latches, blanking and strobe	+600V	-15mA / +12mA	Push-Pull	5MHz	16	All	28	P, PJ, WG
HV582	96	B	Serial to parallel converter with latches, polarity, blanking and HiZ	+90V	±75mA	Push-Pull	5MHz	6	All	160	FG



## High Voltage Driver/Interface ICs

### Source Sink Outputs - Push-Pull (continued)

Device Number	Output Channels	Direction	Logic Configuration	Output Voltage	Output Current per Channel	Output Structure	Clock Rate	Bits	Outputs On	Package Leads	Package Options
HV583	128	B	Serial to parallel converter with latches, polarity, and blanking	+80V	±30mA	Push-Pull	40MHz	1	All	-	X
HV6008	32	CW	H-Bridge output with two output voltage level selections and polarity	+40V	±15mA	Positive and negative pulse with return to ground	1MHz	40	All	44	DJ,PG,PJ
HV632	32	B	Serial to parallel converter with latches, polarity, and blanking	+80V	±4.0mA	Gray Shade PWM	10MHz	1	All	64	PG
HV633	32	B	Amplitude modulated gray shade column driver with 128 output levels	+80V	±7.0mA	Gray Shade Level	12MHz	8	All	64	PG
HV66	32	CW	Serial to parallel converter with latches, polarity, and blanking HI-Z and short circuit detect	+60V	±5.0mA	Push-Pull	5MHz	1	All	80	PG,PJ
HV6810	10	B	Serial to parallel converter with data latches, channel polarity select, and blanking	+80V	-25mA / +100µA	Push-Pull	5MHz	1	All	18	P
										20	PJ, WG
HV7022C	34	B	Serial to parallel converter with latches, enable, and strobe	+230V	±70mA	Push-Pull	4MHz	1	One	44	PJ, DJ
HV7224	40	CW	Serial to parallel converter with latches, and output enable	+240V	±70mA	Push-Pull	3MHz	1	One	64	PG
										80	DG
HV7620	32	B	Serial to parallel converter with latches, and output enable	+200V	±50mA	Push-Pull	10MHz	4	All	64	PG
										80	DG
HV9308	32	CW	Serial to parallel converter with latches, polarity, and blanking	+80V	-20mA / +5.0mA	Push-Pull	8MHz	1	All	44	PJ
HV9408	32	CCW	EL driver with latches, polarity, and blanking with four 16-bit shift registers	+80V	-20mA / +5.0mA	Push-Pull	8MHz	1	All	44	PJ
HV9708	32	CW	EL or plasma driver w/ latches, blanking, polarity, and single shift register	+80V	-20mA / +5.0mA	Push-Pull	8MHz	1	All	44	PJ
HV9808	32	CCW	Serial to parallel converter with latches, blanking and strobe	+80V	-20mA / +5.0mA	Push-Pull	8MHz	1	All	44	PJ

## High Voltage Telecommunication Ring Generator

The use of Supertex's high voltage push-pull IC technology allows these products to control high voltage outputs without the use of step-up transformers. Use of class-D PWM amplifiers in these ICs allows very high efficiencies to be achieved. This is particularly important for short and medium loop telecommunication applications where central telephone office power is not available.

Device Number	Max Ring Voltage	Max Output Load	High Voltage Supplies		PWM Function	Package Leads	Package	Notes
			Positive	Negative				
HV430	105V RMS	50REN	Yes	Yes	external	20	WG	-
HV440	70V RMS	5 or 20REN	Yes	Yes	external	16	WG	1
HV441	70V RMS	5 or 20REN	Yes	Yes	built-in	44	PJ	1
HV450	70V RMS	5 or 20REN	No	Yes	external	16	WG	1
HV461	105V RMS	50REN	No	No	built-in	48	FG	-

Notes:

1. Max Output Load with external Supertex MOSFETs: TN2524N8 & TP2522N8

## High Voltage Telecommunication Switch Translator ICs

### Electronic Line Switch ICs

These electronic switch ICs are designed as a replacement for the typical mechanical hook switch or electromechanical relays in telephones and answering machines. Multiple low-level inputs are provided for design versatility and may be controlled directly from logic circuitry or from mechanical switches. These ICs are line-powered and are especially useful in applications that require telephone operation when external power is lost or otherwise unavailable.

Device Number	Switch Resistance	Maximum Breakdown	Package Leads	Package
HT0638	15 Ohm	375V	8	LG
HT18	18 Ohm	350V	8	LG
HT19	18 Ohm	350V	8	LG

## Level Translators and MOSFET Drivers

The Supertex family of high voltage level translators provide a simple solution to shifting logic signals to outputs up to a 400 volt potential difference relative to the input. The primary advantage of these versatile products is that they provide direct interface between low voltage logic and high voltage outputs.

Device Number	Channels	Input Voltage		Output		Input to Output Isolation	Package Leads	Package
		Low V	High V	Low V	High V			
HT0440	2	3.15V	5.5V	6V	10V	±400V	8	LG
HT0740	1	3.15V	5.5V	5V	9V	±400V	8	LG
MD1210	2	4.5	13V	0V	13V	--	12	K6
MD1211	2	1.2V	5.0V	-	-	-	8	LG
MD1711	12	1.8V	5.5V	-12V	12.6V	--	48	FG
MD1810	4	1.2V	5.0V	-	-	-	16	K6
MD1811	2	1.2V	5.0V	-	-	-	16	K6
MD1812	4	1.2V	5.0V	-	-	-	16	K6
MD1813	4	1.2V	5.0V	-	-	-	16	K6

## High Voltage Analog Switch/Multiplexer ICs

Device Number	Output Channels	Supply Voltage $V_{PP} - V_{NN}$	Analog Signal Voltage	Switch Current	Switch Resistance	Output Bleed Resistors	Package Leads	Package Options
HV20220	8	200V	180V	$\pm 2A$	24 Ohm	No	28	PJ
							48	FG
HV20320	8	200V	180V	$\pm 2A$	24 Ohm	No	28	PJ
HV20720	8	200V	180V	$\pm 2A$	27 Ohm	No	28	PJ
HV20822	16	220V	200V	$\pm 2A$	22 Ohm	No	48	FG
HV209	12	200V	180V	$\pm 2A$	24 Ohm	Yes	48	FG
HV214	8	250V	230V	$\pm 2A$	36 Ohm	No	28	PJ
							48	FG
HV219	8	200V	180V	$\pm 2A$	12 Ohm	No	28	PJ
							48	FG
HV220	8	200V	180V	$\pm 2A$	24 Ohm	No	26	B1
							25	GA
HV2201	8	200V	180V	$\pm 2A$	24 Ohm	No	48	FG
							28	PJ
							32	B1
HV230	8	200V	180V	$\pm 2A$	24 Ohm	Yes	26	B1
							26	GA
HV2301	8	200V	180V	$\pm 2A$	24 Ohm	Yes	48	FG
							28	PJ
							32	B1
HV232	8	220V	180V	$\pm 2A$	24 Ohm	Yes	28	PJ
							48	FG
							26	GA
HV238	16	220V	200V	$\pm 2A$	22 Ohm	Yes	48	FG
HV2601	16	200V	180V	$\pm 2A$	24 Ohm	No	48	FG
HV2701	16	200V	180V	$\pm 2A$	24 Ohm	Yes	48	FG

## MEMS Driver ICs/High Voltage Array Amplifier ICs

HV25x family of high voltage amplifiers is designed for the next generation of Micro Electro Mechanical Systems (MEMS). The family features 32-channel non-inverting high voltage Amplifier Arrays capable of output swings up to 295V. To minimize external components, the amplifiers have fixed internal closed loop gain setting resistors.

Device Number	Channel	HV <sub>OUT</sub>	Quiescent Current $I_{PP}/$ Chan-typ.	Slew Rate V/ $\mu$ s	Closed Loop Gain V/V	Feedback Resistance M-Ohm	HVOUT Current Capability Max			Configuration	Output Current Limit	Package Leads	Package
							Source	Sink	Capacitive Load				
HV254	32	250V	44 $\mu$ A	3	50	12	300 $\mu$ A	300pF	100pF	Amp Only	No	100	FG
HV256	32	295V	15 $\mu$ A	2	72	12	500 $\mu$ A	500pF	3000pF	Amp Only	Yes	100	FG
HV257	32	295V	15 $\mu$ A	2	72	12	500 $\mu$ A	500pF	3000pF	Amp with S/H	Yes	100	FG

## Depletion Mode MOSFETs - N-Channel

Device Number	BV <sub>DSX</sub> Min	R <sub>DS(ON)</sub> Max	V <sub>GS(OFF)</sub>		I <sub>DSS</sub> @ VGS = 0V		Pack Leads	Package Options	Notes
			Min V	Max V	Min mA	Max mA			
DN1509	90V	6.0 Ohm	-1.8	-3.5	300	-	3	N8	-
DN2470	700V	42 Ohm	-1.5	-3.5	500	-	3	K4	3
DN2530	300V	12 Ohm	-1.0	-3.5	200	-	3	N3, N8	1,2
DN2535	350V	25 Ohm	-1.0	-3.5	150	-	3	N3, N5	-
DN2540	400V	25 Ohm	-1.0	-3.5	150	-	3	N3, N5, N8	-
DN3125	250V	20 Ohm	-1.5	-3.5	300	-	3	N3, N8	1
DN3135	350V	35 Ohm	-1.5	-3.5	180	-	3	K1, N8	1
DN3145	450V	60 Ohm	-1.5	-3.5	120	-	3	N8	1
DN3525	250V	6 Ohm	-1.5	-3.5	300	-	3	N8	1
DN3535	350V	10 Ohm	-1.5	-3.5	200	-	3	N8	1
DN3545	450V	20 Ohm	-1.5	-3.5	200	-	3	N3, N8	1
LND150	500V	1000 Ohm	-1.0	-3.0	1.0	3.0	3	N3, N8	1
LND250	500V	1000 Ohm	-1.0	-3.0	1.0	3.0	3	K1	1

Notes:

1. Consult factory for die and wafer availability.
2. For future designs, use DN3535 for better voltage and R<sub>DS(on)</sub>
3. I<sub>DSS</sub> of 500mA is a typical value.

## Enhancement Mode MOSFET Arrays (Includes Low Threshold MOSFETs)

### N-Channel

Device Number	Channels	BV <sub>DSS</sub> Min	R <sub>DS(ON)</sub> Max	C <sub>ISS</sub> Typ	V <sub>GS(th)</sub> Max	Package Leads	Package Options	Notes
TD9944	2	240V	6.0 Ohm	65pF	2.0V	8	TG	2
TN0604	4	40V	1.0 Ohm	140pF	1.6V	20	WG	1,2
VN2222	4	220V	1.25 Ohm	300pF	3.0V	20	NC	2
VN3205N6	4	50V	0.3 Ohm	220pF	2.4V	14	NG	2

### P-Channel

Device Number	Channels	BV <sub>DSS</sub> Min	R <sub>DS(ON)</sub> Max	Package # Leads	Package Options	Notes
TP0604	4	-40V	2.0 Ohm	3	N3	2
TP0604WG	4	-40V	2.0 Ohm	20	WG	2

Notes:

1. Consult factory for availability.
2. Consult factory for die and wafer availability.

## Enhancement Mode MOSFETs (Includes Low Threshold MOSFETs) N- and P- Channel

Package Number	$BV_{DSS}/BV_{DGS}$		$R_{DS(ON)}$ Max		$V_{GS(TH)}$ Max	Package # Leads	Package	Notes
	N-Channel	P-Channel	N-Channel	P-Channel				
TC2320	200V	-200V	7.0 Ohms	12 Ohms	2V	8	TG	1,3
TC6320	200V	-200V	7.0 Ohms	8.0 Ohms	2V	8	TG	1,3
TC7320	200V	-200V	20 Ohms	20 Ohms	0.4V (typ)	32	FG	2,3

## Notes:

1. This product is a dual channel MOSFET with both N & P-channels
2. This product is 6 N-Channels and 6 P-Channels.
3. Consult factory for die and wafer availability.

## Enhancement Mode MOSFETs (Includes Low Threshold MOSFETs) N- Channel

Device Number	$BV_{DSS}$	$R_{DS(ON)}$	CISS Typ	$V_{GS(TH)}$ Max	Package Leads	Package Options	Notes
2N6660	60V	3.0 Ohm	50pF	2.0V	3	N2	2
2N6661	90V	4.0 Ohm	50pF	2.0V	3	N2	2
2N7000	60V	5.0 Ohm	60pF	3.0V	3	L	2
2N7002	60V	7.5 Ohm	50pF	2.5V	3	K1	2
2N7008	60V	7.5 Ohm	50pF	2.5V	3	L	2
TN0104	40V	1.8 Ohm	50pF	1.6V	3	N3, N8	2
TN0106	60V	3.0 Ohm	50pF	2.0V	3	N3	2
TN0110	100V	3.0 Ohm	50pF	2.0V	3	N3	2
TN0604	40V	0.75 Ohm	140pF	1.6V	3	N3	1,2
TN0606	60V	1.5 Ohm	100pF	2.0V	3	N3	2
TN0610	100V	1.5 Ohm	100pF	2.0V	3	N3	2
TN0620	200V	6.0 Ohm	110pF	1.6V	3	N3	2
TN0702	20V	1.3 Ohm	130pF	1.0V	3	N3	2
TN1504	40V	3.0 Ohm	50pF	2.0V	-	NW	2
TN1506	60V	3.0 Ohm	50pF	2.0V	-	NW	2
TN1510	100V	3.0 Ohm	50pF	2.0V	-	NW	2
TN2106	60V	2.5 Ohm	45pF	2.0V	3	K1, N3	2
TN2124	240V	15 Ohm	38pF	1.8V	3	K1	2
TN2130	300V	25 Ohm	35pF	2.4V	3	K1	2
TN2425/TN2425TG	250V	3.5 Ohm	105pF	0.8V (min)	3, 8	N8, TG	2
TN2435	350V	6.0 Ohm	200pF	0.8V (min)	3	N8	2
TN2501	18V	2.5 Ohm	70pF	1.0V	3	N8	2
TN2504	40V	1.0 Ohm	70pF	1.6	3	N8	2

## Notes:

1. Not recommended for new designs.
2. Consult factory for die and wafer availability.



## **Enhancement Mode MOSFETs** **(Includes Low Threshold MOSFETs)** **N-Channel (continued)**

Device Number	$V_{DS}$	$R_{DS(ON)}$	CISS (Typ)	$V_{GS(TH)}$ (Max)	Package Options	Notes
TN2510	100V	1.5 Ohm	70pF	2.0V	N8	5
TN2524	240V	6.0 Ohm	65pF	2.0V	N8	5
TN2535	350V	10 Ohm	125pF	2.0V	N8	5
TN2540	400V	12 Ohm	950pF	2.0V	N3, N8	5
TN2640	400V	5.0 Ohm	180pF	2.0V	N3	5
TN5325	250V	7.0 Ohm	70pF	2.0V	K1, N3, N8	5
TN5335	350V	15 Ohm	65pF	2.0V	K1,N8	5
VN0104	40V	3.0 Ohm	35pF	2.4V	N3	5
VN0106	60V	3.0 Ohm	55pF	2.4V	N3	5
VN0300	30V	1.2 Ohm	190pF	4.0V	L	5
VN0550	500V	60 Ohm	50pF	2.0V	N3	5
VN0606	60V	3.0 Ohm	50pF	2.0V	L	5
VN0808	80V	4.0 Ohm	50pF	2.0V	L	5
VN10K	60V	5.0 Ohm	60pF	2.5V	L	5
VN1206	120V	6.0 Ohm	125pF	2.0V	L	5
VN1504	40V	3.0 Ohm	55pF	2.4V	NW	2
VN1506	60V	3.0 Ohm	55pF	2.4V	NW	2
VN1509	90V	3.0 Ohm	55pF	2.4V	NW	2
VN1550	500V	60 Ohm	45pF	4.0V	NW	5
VN2106	60V	4.0 Ohm	35pF	2.4V	N3	5
VN2110	100V	4.0 Ohm	35pF	2.4V	K1	5
VN2210	100V	0.35 Ohm	300pF	2.4V	N2, N3	5
VN2222L	60V	7.5 Ohm	60pF	2.5V	L	5
VN2224	240V	1.25 Ohm	300pF	3.0V	N3	5
VN2406	240V	6.0 Ohm	125pF	2.0V	L	5
VN2410	240V	10 Ohm	125pF	2.0V	L	5
VN2450	500V	13 Ohm	150pF	4.0V	N3, N8	5
VN2460	600V	20 Ohm	150pF	4.0V	N3, N8	5
VN3205	50V	0.3 Ohm	220pF	2.4V	N3, N8	2,3,4,5
VN3515	350V	15 Ohm	110pF	1.8V	L	5
VN4012	400V	12 Ohm	110pF	1.8V	L	5

**Notes:**

2. MIL visual screening available
3. Package options defined on individual datasheets
4. Available in VF32 die
5. Consult factory for die and wafer availability.

## Enhancement Mode MOSFETs (Includes Low Threshold MOSFETs) P-Channel

Device Number	$V_{DS}$	$R_{DS(ON)}$	CISS (Typ)	$V_{GS(TH)}$ (Max)	Package Options	Notes
LP0701	-16.5V	1.5 Ohm	120pF	-1.0V	N3	2
TP0606	-60V	3.5 Ohm	80pF	-2.40V	N3	2
TP0610	-60V	10 Ohm	60pF	-2.4V	K1	2
TP0620	-200V	12 Ohm	85pF	-2.4V	N3	2
TP2104	-40V	6.0 Ohm	45pF	-2.0V	K1, N3	2
TP2424	-240V	8.0 Ohm	200pF	-2.4V	N8	2
TP2435	-350V	15 Ohm	200pF	-2.4V	N8	2
TP2502	-20V	2.0 Ohm	100pF	-2.4V	N8	2
TP2510	-100V	3.5 Ohm	80pF	-2.4V	N8	2
TP2520	-200V	12 Ohm	75pF	-2.4V	N8	2
TP2522	-220V	12 Ohm	75pF	-2.4V	N8	2
TP2535	-350V	25 Ohm	60pF	-2.4V	N3	2
TP2540	-400V	4.0 Ohm	60pF	-2.4V	N3, N8	2
TP2635	-350V	15 Ohm	220pF	-2.0V	N3	2
TP2640	-400V	15 Ohm	220pF	-2.0V	N3	2
TP5322	-220	12 Ohm	75pF	-2.4	K1, N8	2
TP5335	-350V	30 Ohm	65pF	-2.4V	K1	2
VP0104	-40V	8.0 Ohm	45pF	-3.5V	L	2
VP0106	-60V	8.0 Ohm	45pF	-3.5V	N3	2
VP0109	-90V	8.0 Ohm	45pF	-3.5V	N3	2
VP0550	-500V	125 Ohm	40pF	-4.5V	N3	2
VP0808	-80V	5.0 Ohm	150pF	-4.5V	L	2
VP1504	-40V	8.0 Ohm	45pF	-3.5V	NW	1, 2
VP1506	-60V	8.0 Ohm	45pF	-3.5V	NW	1, 2
VP1509	-90V	8.0 Ohm	45pF	-3.5V	NW	1, 2
VP1550	-500V	125 Ohm	40pF	-4.5V	NW	2
VP2106	-60V	12 Ohm	45pF	-3.5V	N3	2
VP2110	-100V	12 Ohm	45F	-3.5V	K1	2
VP2206	-60V	0.9 Ohm	325pF	-3.5V	N3, N2	2
VP2450	-500V	30 Ohm	130pF	-3.5V	N3, N8	2
VP3203	-30V	0.6 Ohm	220pF	-3.5V	N3, N8	2

## Notes:

1. MIL visual screening available.
2. Consult factory for die and wafer availability.

## Insulated Gate Bipolar Transistor (IGBT)

Device Number	$V_{(continuous)}$	$I_{C(continuous)}$	$I_{C(pulsed)}$	Package Options
GN2470	700V	1.0A	3.5A	K4

# ***General Information***

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## Quality and Reliability

Supertex maintains R & QA programs at critical operations to assure that products are manufactured under a documented and controlled system for consistency in workmanship standards (fit, form, function, and reliability).

The following Standards and Specifications have been integrated into Supertex's manufacturing operations and process control programs:

- *ISO 9001* International Standard, Quality Management and Quality System.
- *FED-STD-209* Clean Room and Work Station Requirements, Controlled Environments.
- *DOD-HDBK-263* Electrostatic Discharge Control Handbook for Protection of Electrical and Electronic Parts, Assemblies and Equipment
- *DOD-STD-1686* Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies and Equipment.
- *MIL-PRF-38535* Microcircuits, General Specification For.
- *MIL-I-45208* Inspection Systems.
- *MIL-PRF-19500* Semiconductor Devices, General Specification For.
- *ASQZ-Z1.4* Sampling Procedures and Tables for Inspection by Attributes.
- *MIL-STD-750* Test Methods for Semiconductor Devices.
- *MIL-STD-883* Test Method and Procedures for Microelectronics.
- *MIL-STD-202* Test Methods for Electronic and Electrical Component Parts.
- *ANSI-NCSL Z540.1* Calibration System Requirements.
- *Special Customer Specifications*

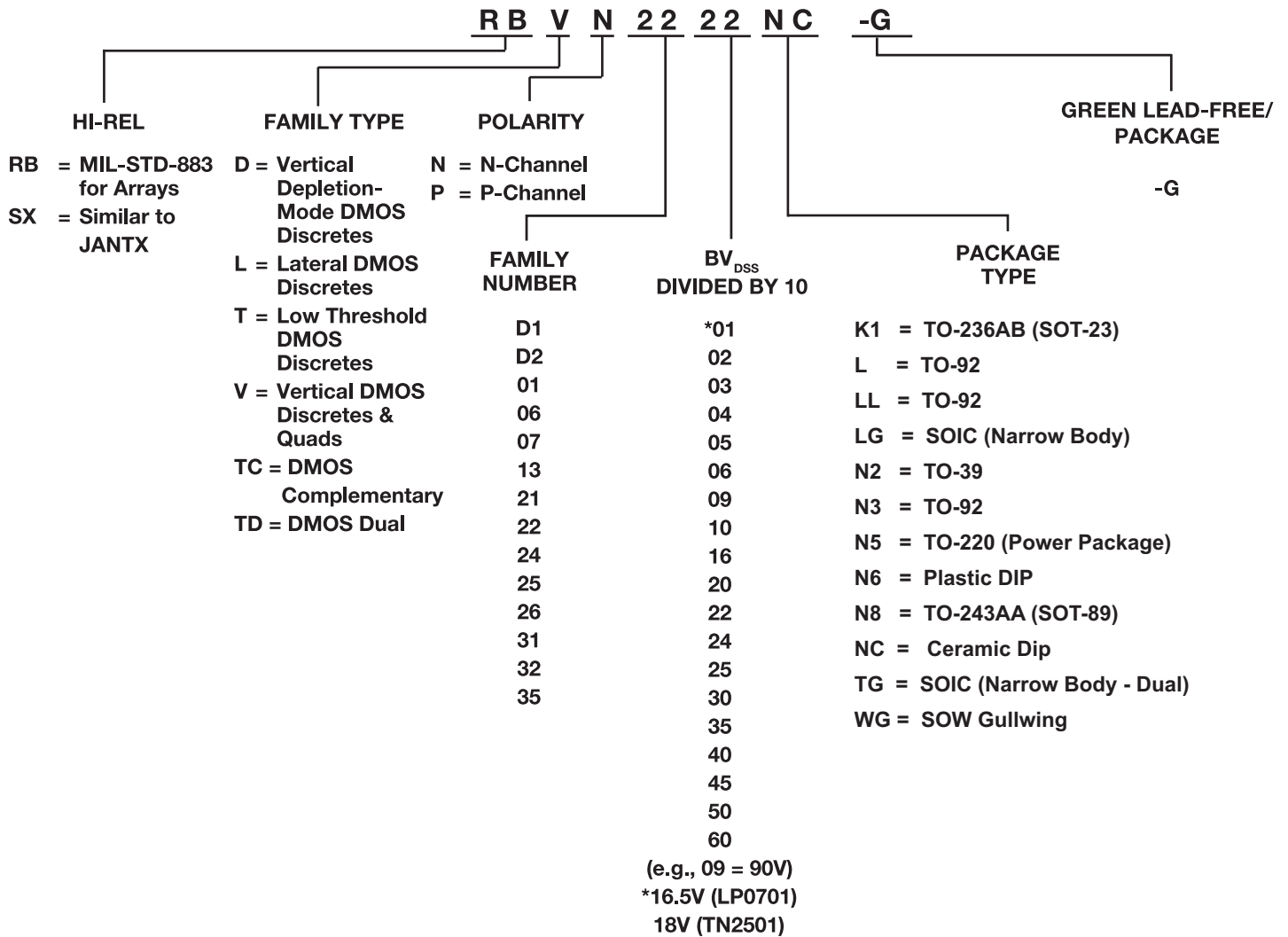
## Hi-Rel Flow

Supertex processes MOSFETs and IC products to industry standard High Reliability Flows. Custom flows per SCDs are also performed to specific customer requirements. Standard flows are listed below:

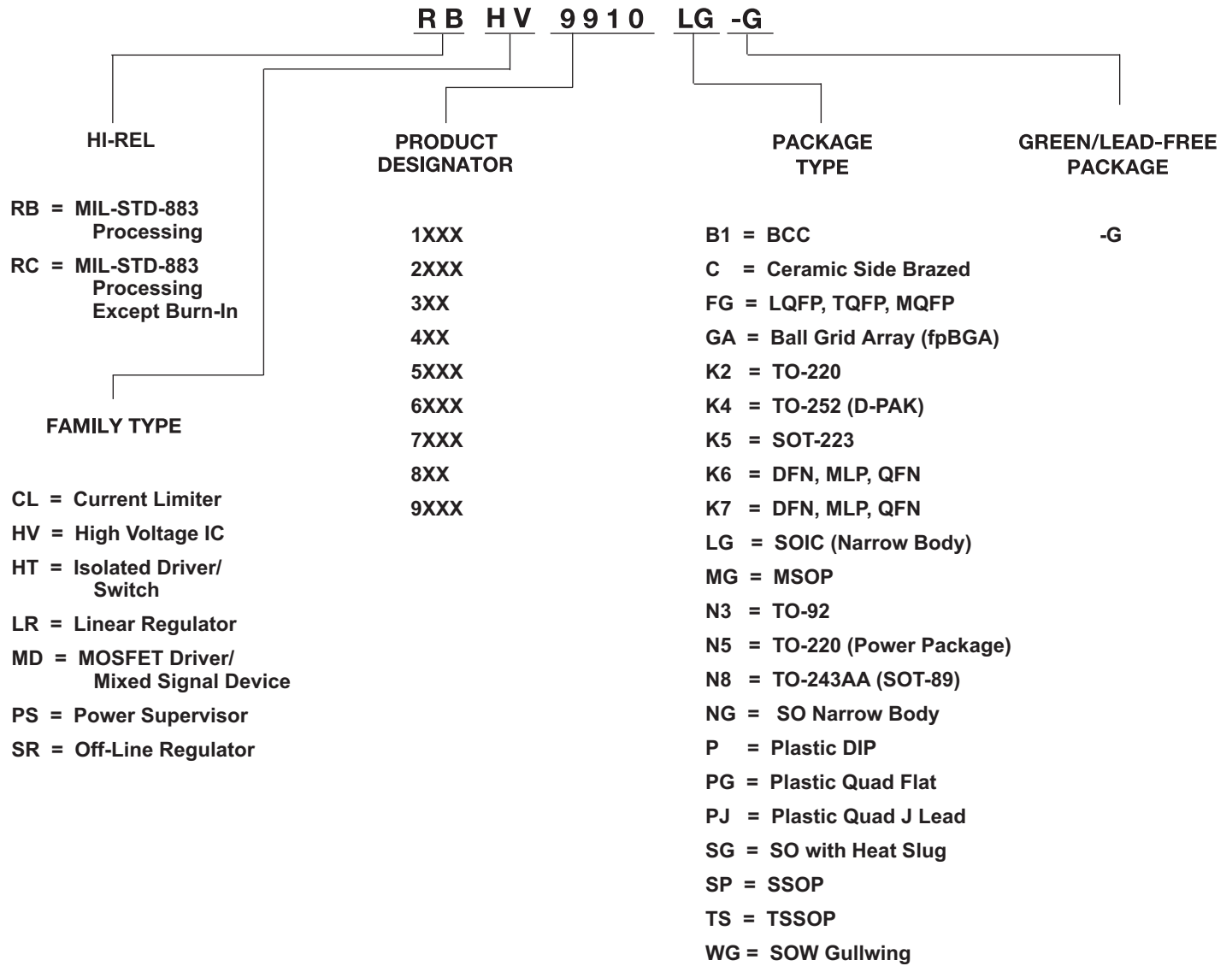
Supertex Flows (Part Number Prefix)	Similar To
RB (For Quads, Discretes & ICs)	MIL-STD-883
RC (For ICs)	MIL-STD-883 except burn-in

## Product Nomenclature and Ordering Information

### DMOS Proprietary Products



# Product Nomenclature and Ordering Information High Voltage IC Products





## Supertex Green Initiative

### Introduction

Environmental concerns around the world are fueling the need for lead-free solutions in electronic components and systems within the semiconductor and electronics industries. Potential health hazards posed by Lead (Pb) contamination are a major concern to everyone. Supertex's Green/Lead (Pb)-Free initiative ensures the complete removal of lead from our entire device portfolio, without adversely affecting technical specifications or your own manufacturing processes.

### Background

The European Directives on waste electrical and electronic equipment (WEEE) and removal of hazardous substances (RoHS) became European law on February 13, 2003, and member states must implement the law by August 13, 2004. Member states must ensure that by July 1, 2006, new electrical and electronic equipment placed on the market does not contain Lead (Pb) or any of the restricted hazardous materials identified in the legislation such as Mercury (Hg), Cadmium (Cd), Hexavalent Chromium (Cr VI), Polybrominated Biphenyls (PBB) and Polybrominated Diphenyl Ethers (PBDE). To achieve compliance to Green/Lead (Pb)-Free compliance, Supertex has adopted the use of lead-free Matte tin 100% Tin (Sn).

### Green Package

A semiconductor package is considered "Green" when four elements--lead (Pb), bromine (Br), chlorine (Cl) and antimony (Sb<sub>2</sub>O<sub>3</sub>)--are not intentionally added during the manufacturing process. A Green product contains materials with less than 1000ppm of lead content and less than 900ppm of halogen and antimony content. To achieve these levels in the semiconductor manufacturing process, Supertex uses only mold compounds and substrate materials that contain less than 900ppm of chlorine and bromine, known as halogens, and avoids the use of brominated flame retardant (Sb<sub>2</sub>O<sub>3</sub> listed by IARC as a carcinogen) where technically and economically possible.

### Marking

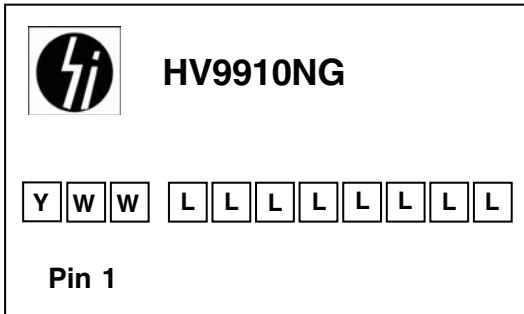
Once industry standards on marking Green/Lead (Pb)-Free certified parts, Supertex will make every effort to adhere to them

Supertex uses this Green mold compound plus a Lead (Pb)-Free plating for finishing the leads of integrated circuits. The material used in this manufacturing step is pure tin. Further, Supertex does not support the use of non-Green mold compounds plus Pb-Free plating products. This means the Supertex manufacturing process is totally Green, which, by definition, includes Pb-Free.

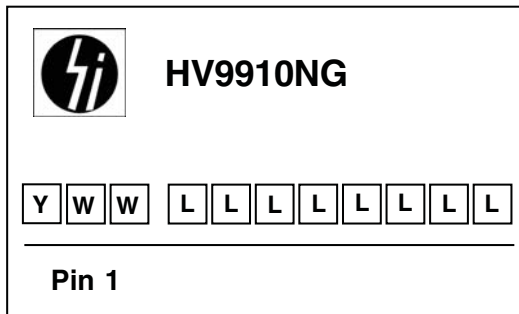


## Package Marking Instructions for RoHS Compliant - Green/Lead (Pb) - Free\* Parts

Standard Part Top Marking



Green/Lead (Pb)-Free Top Marking



YY: Year Sealed  
WW: Week Sealed  
L: Lot Number  
(Up to 8 characters)

Note: The only difference between markings on standard parts and Green/Lead (Pb)-Free parts is that the last row of the top mark is underlined.

## Ordering Supertex Green/Lead (Pb) - Free\* Parts

**Example:**

Code for standard tin-lead product: HV9910NG

Code for Green/Lead (Pb)-Free products: HV9910NG-G

**To order Supertex Green/Lead (Pb)-Free products:**

Orders for parts with Green/Lead (Pb)-Free plating can be placed using the following flow or options:

**Option 1** To order a standard non-tape and reel part that is available with Green/Lead (Pb)-Free plating, add "-G" to the part number:

**For example:**

Sn/Pb part: HV9910NG  
Green part: HV9910NG-G

**Option 2** To order a part with Green/Lead (Pb)-Free plating that is available in tape and reel, add "-G" and the tape and reel suffix to the part number:

**For example:**

Sn/Pb part: HV9910NG M905  
Green part: HV9910NG-G M905

Supertex Tape and Reel Specifications: See <http://www.supertex.com/pdf/options/TapeReelPkgOptions.pdf>  
Inner Carton Packing Label Instructions: See <http://www.supertex.com/pdf/misc/GreenOrdering.pdf>

NOTE: The only difference between markings on Standard Parts and Green/Lead (Pb)-Free Parts is that the last row of the top mark is underlined.

\*A semiconductor package is considered "Green" when four elements lead (Pb), bromine (Br), chlorine (Cl) and antimony (Sb203) are not intentionally added during the manufacturing process. A Green product contains materials with less than 1000ppm of lead content. To accomplish this in the semiconductor manufacturing process Supertex uses only mold compounds and substrate materials that contain less than 900ppm of chlorine and bromine, known as halogens, and avoids the use of brominated flame retardant (Sb203 listed by IARC as a carcinogen) where technically and economically possible. Supertex uses this Green mold compound plus a Pb-Free plating for finishing the leads of integrated circuits. The material used in this manufacturing step is pure tin. Further, Supertex does not support the use of non-Green mold compounds plus Pb-Free plating products. This means the Supertex manufacturing process is totally Green, which by definition includes Pb-Free.

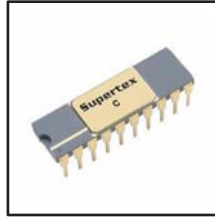
## Packaging Information



**B1**  
26-Lead  
BCC Package



**B1**  
32-Lead  
BCC Package



**C, NC**  
20-Lead Ceramic  
Side Braze  
DIP Package



**FG**  
32-Lead  
LQFP  
Package



**FG**  
48-Lead  
LQFP/TQFP(1.4mm)  
Package



**FG**  
100-Lead  
MQFP  
Package



**FG**  
160-Lead  
MQFP  
Package



**GA**  
fpBGA  
Package



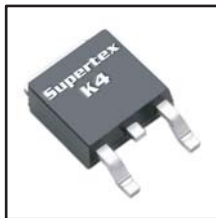
**K1,T**  
3-Lead  
TO-236AB  
(SOT-23) Package



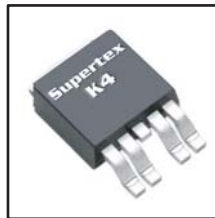
**K1**  
5-Lead  
Package



**K2**  
7-Lead TO-220  
Package



**K4**  
3-Lead TO-252  
(D-PAK)  
Package



**K4**  
5-Lead  
Package



**K5**  
3-Lead SOT-223  
Package



**K6**  
6-Lead DFN/MLP  
Package



**K6**  
10-Lead DFN/MLP  
Package



**K6**  
12-Lead MLP/QFN  
Package



**K6**  
16-Lead QFN/MLP  
Package



**K7**  
8-Lead DFN/MLP  
Package



**K7**  
10-Lead DFN/MLP  
Package



**K7**  
12-Lead MLP/QFN  
Package



**K7**  
32-Lead QFN  
Package



**L, LL, N3**  
TO-92  
Package



**LG**  
8-Lead SOIC  
Narrow Body  
Package



**MG**  
8-Lead MSOP  
Package

## Packaging Information (cont.)



**MG**  
10-Lead MSOP  
Package



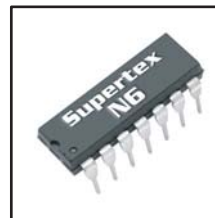
**N2**  
TO-39  
Metal Can  
Package



**N3**  
3-Lead TO-92  
Package



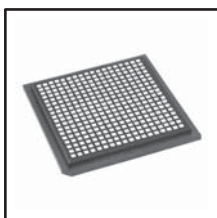
**N5**  
3-Lead TO-220  
Package



**N6**  
14-Lead  
Plastic DIP  
Package



**N8**  
3-Lead TO-243AA  
(SOT-89)  
Package



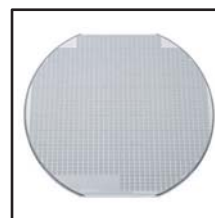
**ND**  
Die in Waffel Pack



**NG**  
14-Lead SO  
Narrow Body  
Package



**NG**  
16-Lead SO  
Narrow Body  
Package



**NW**  
Die in Wafer Form



**P**  
8-Lead  
Plastic DIP  
Package



**P**  
14-Lead  
Plastic DIP  
Package



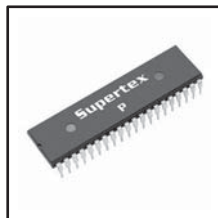
**P**  
16-Lead  
Plastic DIP  
Package



**P**  
18-Lead  
Plastic DIP  
Package



**P**  
28-Lead  
Plastic DIP  
Package



**P**  
40-Lead  
Plastic DIP  
Package



**PG**  
44-Lead Plastic  
Quad Flat Gullwing  
Package



**PG**  
64-Lead Plastic  
Quad Flat Gullwing  
Package



**PG**  
80-Lead  
Plastic Quad Flat  
Gullwing Package



**PG**  
100-Lead  
Plastic Quad Flat  
Gullwing Package



**PJ**  
20-Lead  
Plastic J-Bend  
Package



**PJ**  
28-Lead  
Plastic J-Bend  
Package



**PJ**  
44-Lead  
Plastic J-Bend  
Package



**SG**  
8-Lead SO Narrow  
Body (w/ Heat Slug)  
Package



**SP**  
20-Lead SSOP  
Package

## **Packaging Information (cont.)**



**TG**  
8-Lead SO Narrow  
Body Dual  
Package



**TS**  
16-Lead TSSOP  
Package



**WG**  
16-Lead SO  
Wide Body  
Package



**WG**  
20-Lead SO  
Wide Body  
Package



**WG**  
24-Lead SO  
Wide Body  
Package



**WG**  
28-Lead SO  
Wide Body  
Package



# ***Demo Board Datasheets***

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## Demoboard Datasheets

DEVICE	DESCRIPTION
HV254DB1	32 CHANNEL HIGH VOLTAGE AMPLIFIER ARRAY DEMOBOARD
HV256DB1	32 CHANNEL HIGH VOLTAGE AMPLIFIER ARRAY DEMOBOARD
HV257DB1	32 CHANNEL HIGH VOLTAGE AMPLIFIER ARRAY DEMOBOARD
HV430DB1	5 REN RING GENERATOR W/HV SUPPLIES AND SINE PWM DEMOBOARD
HV440DB1	5 REN RING GENERATOR DEMOBOARD
HV440DB2	20 REN RING GENERATOR DEMOBOARD
HV7100DB1	24/48V FAN DRIVER/CONTROLLER DEMOBOARD
HV732DB1	HIGH SPEED $\pm 100V$ 2A INTEGRATED ULTRASOUND PULSER
HV809DB1	OFF LINE EL DRIVER, UP TO 100 INCH SQUARE LAMP DEMOBOARD
HV809DB2	HV809LG + DC-DC CONVERTER DEMOBOARD
HV823DB1	HIGH VOLTAGE EL LAMP DRIVER DEMOBOARD
HV830DB1	HIGH VOLTAGE EL LAMP DRIVER, $V_{DD}=2-9V$ , UP TO 25 INCH SQUARE LAMP DEMOBOARD
HV835DB1	LOW NOISE DUAL EL LAMP DRIVER DEMOBOARD
HV841DB1	LOW NOISE DUAL EL LAMP DRIVER DEMOBOARD
HV852DB1	LOW NOISE, INDUCTORLESS, EL LAMP DRIVER DEMOBOARD
HV857DB1	LOW NOISE,HIGH VOLTAGE EL LAMP DRIVER DEMOBOARD
HV857LDB1	LOW NOISE,HIGH VOLTAGE EL LAMP DRIVER DEMOBOARD
HV859DB1	HIGH VOLTAGE EL LAMP DRIVER DEMOBOARD
HV860DB1	LOW NOISE, DIMMABLE EL DRIVER DEMOBOARD
HV732DB1	HIGH SPEED PULSER DEMOBOARD
HV9903DB1	WHITE LED DRIVER DEMOBOARD
HV9910DB1	OFF-LINE HIGH BRIGHTNESS LED DRIVER DEMOBOARD
HV9910DB2	UNIVERSAL VOLTAGE, OFF-LINE, HIGH BRIGHTNESS, LED DRIVER DEMOBOARD
HV9910DB3	LOW VOLTAGE, HIGH BRIGHTNESS LED DRIVER DEMOBOARD
HV9911DB1v.2	HIGH BRIGHTNESS, BOOST, LED DRIVER WITH 1:3000 DIMMING RATIO AND EXCELLENT CURRENT REGULATION
HV9911DB2	BOOST LED DRIVER WITH 1:3000 DIMMING RATIO AND EXCELLENT CURRENT REGULATION
HV9911DB3	HIGH BRIGHTNESS STEP-DOWN LED DRIVER WITH EXCELLENT CURRENT REGULATION
HV9911DB4	HIGH BRIGHTNESS SEPIC LED DRIVER WITH HIGH DIMMING RATIO AND EXCELLENT CURRENT REGULATION
HV9921DB1	UNIVERSAL OFF-LINE LED DRIVER DEMOBOARD
HV9922DB1	UNIVERSAL OFF-LINE LED DRIVER DEMOBOARD
HV9922DB2	OFF-LINE NON-ISOLATED POWER SUPPLY
HV9923DB1	UNIVERSAL OFF-LINE LED DRIVER DEMOBOARD
HV9925DB1	PROGRAMMABLE CURRENT, PWM DIMMING, LED DRIVER DEMOBOARD
HV9930DB1	HYSTERETIC BOOST-BUCK LED DRIVER DEMOBOARD
HV9930DB2	HIGH BRIGHTNESS LED DRIVER WITH EXCELLENT LINE AND LOAD REGULATION
HV9931DB1	SINGLE-STAGE PFC 700mA HIGH LED DRIVER DEMOBOARD
HV9931DB4	DIMMER SWITCH COMPATIBLE OFF-LINE LED DRIVER DEMOBOARD
HV9931DB5	UNIVERSAL INPUT, SINGLE HIGH BRIGHTNESS LED DRIVER DEMOBOARD

## Demoboard Datasheets

DEVICE	DESCRIPTION
MD1210DB1	MD1210 + TC6320 HIGH SPEED $\pm 100V$ 2A PULSER DEMOBOARD
MD1711DB1	MD1711 + TC6320 HIGH SPEED $\pm 100V$ 2A PULSER DEMOBOARD
PS12DB1	PS12 QUAD POWER SEQUENCING CONTROLLER DEMOBOARD
SR086DB1	INDUCTORLESS SWITCHING POWER SUPPLY, REGULATED DEMOBOARD
SR087DB1	INDUCTORLESS SWITCHING POWER SUPPLY, REGULATED DEMOBOARD



# ***Application Notes***

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## Application Notes Listing

Title	Synopsis
AN-D2	Low-Threshold MOSFETs: Structure, Performance and Applications
AN-H3	Basics of EL Panel Drive Techniques AN-D8 High Voltage Pulser Circuits
AN-D9	TN0604 Series: Battery Back-Up Utilizes Low Threshold MOSFETs
AN-D10	LND150: Off-Line Compact Universal Linear Regulator
AN-D11	LND150: $\pm 500$ Volt Protection Circuit
AN-D12	LND150: High Voltage Ramp Generator
AN-H13	HV9110/HV9120: Designing High-Performance Flyback Converters
AN-D14	LP0701: Low Dropout 3.0 Volt Linear Regulator
AN-D15	Understanding MOSFET Data
AN-D16	LND150: Constant Current Sources and Depletion-Mode FETs
AN-D17	LND150: High Voltage Off-Line Linear Regulator
AN-D18	DN2540: Constant Current Sources and Depletion-Mode FETs
AN-H20	HV3418: HVCMOS Drivers for Non-Impact Printing
AN-H21	HV91xx: Calculating Power Dissipation and Supply Current
AN-H22	HV91xx: Customizing the Linear Circuitry Response via the Bias Resistor
AN-H23	HV91xx: Avoiding Turn-on Oscillations
AN-H24	HV9120: Expected Voltages and Waveforms from the Flyback Converter
AN-D25	LND150: Efficient Switchmode Power Supply Start-Up Circuit
AN-D26	HT0440: High Voltage Isolated MOSFET Driver
AN-D27	DMOS Devices for Telecommunications
AN-D30	DN2535: Off-Line 5.0V Output Non-Isolated Linear Regulator
AN-H32	HT0638: Electronic Line Switch
AN-H34	HV823/HV825: EL Lamp Driver Circuits (Please fill out EL Lamp Driver Requirements Questionnaire)
AN-H35	HV441: High Voltage Ring Generator
AN-H36	HV809: EL Lamp Driver for Battery Powered and Off-line Equipment
AN-H37	HV440 High Voltage Ring Generator
AN-H38	HV826: EL Lamp Driver Circuits (Please fill out EL Lamp Driver Requirements Questionnaire)
AN-H39	HT18/HT19: Electronic Line Switch
AN-H40	LR8: High Voltage Linear Regulator and Constant Current Sources Using
AN-H42	HV430: 105 Volt RMS Ring Generator
AN-H43	HV857: EL Lamp Driver Circuits for Low Audible Noise or High Brightness Applications
AN-H44	HV832 Dual EL Lamp Driver Circuits
AN-H45	HV833: EL Lamp Driver Circuits
AN-H46	HV831/HV839: Dual EL Lamp Driver Circuits
AN-H48	HV9910/HV9910B: Buck-based LED Drivers
AN-H50	HV9910/HV9910B: Constant Off-Time, Buck-Based LED Drivers
AN-H51	HV9930: Designing a Boost-Buck (Cuk) Converter
AN-H52	HV9931: Unity Power Factor LED Driver
AN-H53	MD1210: High Voltage Pulser Circuits

Title	Synopsys
AN-H54	MD1810/MD1811: Quad MOSFET Drivers for High Resolution Imaging
AN-H55	HV9911: Switch-mode LED Driver IC with High Current Accuracy
AN-H56	MD1812 and MD1813: Designing an Ultrasound Pulser with the Composite Drivers
AN-H57	HV732: Designing an Integrated Ultrasound Pulser
DN-H3	HV9922: Alternate Use of as an Off-line Non-Isolated 50mA to 100mA Auxiliary Power Supply

All Application Notes can be downloaded at: [www.supertex.com/documents/application\\_notes](http://www.supertex.com/documents/application_notes)



# ***Alphanumeric Index***

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2N7000N3	MOSFET, N-CHANNEL, 60V, 5Ω, TO-92	14, 29
2N7000N3-G	MOSFET, N-CHANNEL, 60V, 5Ω, TO-92, (GREEN)	14, 29
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CL2N3	5V-90V, 20mA, CONSTANT CURRENT LED DRIVER, TO-92	IV, 9, 13, 19
CL2N3-G	5V-90V, 20mA, CONSTANT CURRENT LED DRIVER, TO-92 (GREEN)	IV, 9, 13, 19
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DN3135N8-G	MOSFET, DEPLETION-MODE, 350V, 35Ω, SOT-89 (GREEN)	7, 14, 28
DN3145N8	MOSFET, DEPLETION MODE, 450V, 60Ω, SOT-89	7, 14, 28
DN3145N8-G	MOSFET, DEPLETION MODE, 450V, 60Ω, SOT-89 (GREEN)	7, 14, 28
DN3525N8	MOSFET, DEPLETION-MODE, 250V, 6Ω, SOT-89	7, 14, 28

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Part Number	Description	Page No.
DN3525N8-G	MOSFET, DEPLETION-MODE, 250V, 6Ω, SOT-89 (GREEN)	7, 14, 28
DN3535N8	MOSFET, DEPLETION-MODE, 350V, 10Ω, SOT-89	7, 14, 28
DN3535N8-G	MOSFET, DEPLETION-MODE, 350V, 10Ω, SOT-89 (GREEN)	7, 14, 28
DN3545N3	MOSFET, DEPLETION MODE, 450V, 20Ω, TO-92	7, 14, 28
DN3545N3-G	MOSFET, DEPLETION MODE, 450V, 20Ω, TO-92 (GREEN)	7, 14, 28
DN3545N8	MOSFET, DEPLETION MODE, 450V, 20Ω, SOT-89	7, 14, 28
DN3545N8-G	MOSFET, DEPLETION MODE, 450V, 20Ω, SOT-89 (GREEN)	7, 14, 28
GN2470K4	700V, 3.5A, INSULATED GATE BIPOLAR TRANSISTOR, 3-LEAD TO-252	IV
GN2470K4-G	700V, 3.5A, INSULATED GATE BIPOLAR TRANSISTOR, 3-LEAD TO-252 (GREEN)	IV
HT0440LG	HIGH VOLTAGE ISOLATED OUTPUT MOSFET DRIVER, 400V, 8-LEAD SOIC	7, 13, 26, 44
HT0440LG-G	HIGH VOLTAGE ISOLATED OUTPUT MOSFET DRIVER, 400V, 8-LEAD SOIC (GREEN)	7, 13, 26, 44
HT0638LG	ELECTRONIC LINE SWITCH, 375V, 15Ω, 8-LEAD SOIC	7, 13, 26, 44
HT0638LG-G	ELECTRONIC LINE SWITCH, 375V, 15Ω, 8-LEAD SOIC (GREEN)	7, 13, 26, 44
HT0740LG	HIGH VOLTAGE ISOLATED OUTPUT MOSFET DRIVER, 400V, 8-LEAD SOIC	7, 13, 26
HT0740LG-G	HIGH VOLTAGE ISOLATED OUTPUT MOSFET DRIVER, 400V, 8-LEAD SOIC (GREEN)	7, 13, 26
HT18LG	HIGH VOLTAGE ELECTRONIC LINE SWITCH, 350V, 8-LEAD SOIC	7, 13, 26, 44
HT18LG-G	HIGH VOLTAGE ELECTRONIC LINE SWITCH, 350V, 8-LEAD SOIC (GREEN)	7, 13, 26, 44
HT19LG	HIGH VOLTAGE ELECTRONIC LINE SWITCH, 350V, 8-LEAD SOIC	7, 13, 26, 44
HT19LG-G	HIGH VOLTAGE ELECTRONIC LINE SWITCH, 350V, 8-LEAD SOIC (GREEN)	7, 13, 26, 44
HV100K5	NEGATIVE HOTSWAP CONTROLLER, 3-LEAD, SOT-223	7, 13, 18
HV100K5-G	NEGATIVE HOTSWAP CONTROLLER, 3-LEAD, SOT-223 (GREEN)	7, 13, 18
HV101K5	NEGATIVE HOTSWAP CONTROLLER, 3-LEAD, SOT-223	7, 13, 18
HV101K5-G	NEGATIVE HOTSWAP CONTROLLER, 3-LEAD, SOT-223 (GREEN)	7, 13, 18
HV110K4	POWER-OVER-ETHERNET INTERFACE PD CONTROLLER, 5-LEAD, D-PAK	7, 18
HV110K4-G	POWER-OVER-ETHERNET INTERFACE PD CONTROLLER, 5-LEAD, D-PAK (GREEN)	7, 18
HV20220FG	HVCMOS, 8-CHANNEL SWITCH W/SHIFT REG W/LATCHES, 200V, 48-LEAD TQFP	11, 27
HV20220FG-G	HVCMOS, 8-CHANNEL SWITCH W/SHIFT REG W/LATCHES, 200V, 48-LEAD TQFP (GREEN)	11, 27
HV20220PJ	HVCMOS, 8-CHANNEL SWITCH W/SHIFT REG W/LATCHES, 200V, 28-LEAD PLCC	11, 27
HV20220PJ-G	HVCMOS, 8-CHANNEL SWITCH W/SHIFT REG W/LATCHES, 200V, 28-LEAD PLCC (GREEN)	11, 27
HV20320PJ	HVCMOS, 8-CHANNEL SWITCH W/SHIFT REG W/LATCHES, 200V, 28-LEAD PLCC	11, 27
HV20320PJ-G	HVCMOS, 8-CHANNEL SWITCH W/SHIFT REG W/LATCHES, 200V, 28-LEAD PLCC, (GREEN)	11, 27
HV20720PJ	HVCMOS, 8-CHANNEL SWITCH W/SHIFT REG W/LATCHES, 200V, 28-LEAD PLCC	11, 27
HV20822FG	HVCMOS, 16-CHANNEL SWITCH W/SHIFT REG W/LATCHES, 220V, 48-LEAD TQFP	11, 27
HV20822FG-G	HVCMOS, 16-CHANNEL SWITCH W/SHIFT REG W/LATCHES, 220V, 48-LEAD TQFP (GREEN)	11, 27
HV209FG	HVCMOS, 12-CHANNEL SWITCH W/SHIFT REG W/LATCHES, 200V, 48-LEAD TQFP	11, 27
HV209FG-G	HVCMOS, 12-CHANNEL SWITCH W/SHIFT REG W/LATCHES, 200V, 48-LEAD TQFP (GREEN)	11, 27
HV214FG	HVCMOS, 8-CHANNEL ANALOG SWITCH, 48-LEAD TQFP	11, 27
HV214PJ	HVCMOS, 8-CHANNEL ANALOG SWITCH, 28-LEAD PLCC	11, 27
HV219FG	HVCMOS, 8-CHANNEL SWITCH, 48-LEAD TQFP	IV, 11, 27
HV219FG-G	HVCMOS, 8-CHANNEL SWITCH, 48-LEAD TQFP (GREEN)	IV, 11, 27
HV219PJ	HVCMOS, 8-CHANNEL SWITCH, 28-LEAD PLCC	IV, 11, 27

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Part Number	Description	Page No.
HV219PJ-G	HVCMOS, 8-CHANNEL SWITCH, 28-LEAD PLCC (GREEN)	IV, 11, 27
HV220GA	HVCMOS, 8-CHANNEL SWITCH W/SHIFT REG W/LATCHES, 200V, 25-LEAD fpBGA	11, 30
HV220GA-G	HVCMOS, 8-CHANNEL SWITCH W/SHIFT REG W/LATCHES, 200V, 25-LEAD fpBGA, (GREEN)	11, 30
HV220B1	HVCMOS, 8-CHANNEL SWITCH W/SHIFT REG W/LATCHES, 200V, 26-LEAD BCC, (GREEN)	11, 30
HV2201FG-G	LOW CHARGE INJECTION 8-CHANNEL ENHANCED HIGH VOLTAGE ANALOG SWITCH, 48-LEAD TQFP (GREEN)	IV, 11, 27
HV2201PJ-G	LOW CHARGE INJECTION 8-CHANNEL ENHANCED HIGH VOLTAGE ANALOG SWITCH, 28-LEAD PLCC (GREEN)	IV, 11, 27
HV2201B1-G	LOW CHARGE INJECTION 8-CHANNEL ENHANCED HIGH VOLTAGE ANALOG SWITCH, 32-LEAD BCC (GREEN)	IV, 11, 27
HV2301FG-G	LOW CHARGE INJECTION 8-CHANNEL ENHANCED HIGH VOLTAGE ANALOG SWITCH WITH BLEED RESISTORS, 48-LEAD TQFP (GREEN)	IV, 11, 27
HV2301PJ-G	LOW CHARGE INJECTION 8-CHANNEL ENHANCED HIGH VOLTAGE ANALOG SWITCH WITH BLEED RESISTORS, 28-LEAD PLCC (GREEN)	IV, 11, 27
HV2301B1-G	LOW CHARGE INJECTION 8-CHANNEL ENHANCED HIGH VOLTAGE ANALOG SWITCH WITH BLEED RESISTORS, 32-LEAD BCC (GREEN)	IV, 11, 27
HV230B1-G	HVCMOS, 8-CHANNEL SWITCH WITH BLEED RESISTORS, 200V, 26-Lead BCC (GREEN)	11, 27
HV230GA	HVCMOS, 8-CHANNEL SWITCH WITH BLEED RESISTORS, 200V, 26-Lead fpBGA	11, 27
HV230GA-G	HVCMOS, 8-CHANNEL SWITCH WITH BLEED RESISTORS, 200V, 26-Lead fpBGA, (GREEN)	11, 27
HV232FG	HVCMOS, 8-CHANNEL SWITCH WITH BLEED RESISTORS, 200V, 48-LEAD TQFP	11, 27
HV232FG-G	HVCMOS, 8-CHANNEL SWITCH WITH BLEED RESISTORS, 200V, 48-LEAD TQFP, (GREEN)	11, 27
HV232PJ	HVCMOS, 8-CHANNEL SWITCH WITH BLEED RESISTORS, 200V, 28-LEAD PLCC	11, 27
HV232PJ-G	HVCMOS, 8-CHANNEL SWITCH WITH BLEED RESISTORS, 200V, 28-LEAD PLCC, (GREEN)	11, 27
HV238FG	16-CHANNEL HIGH VOLTAGE ANALOG SWITCH w/BLEED RESISTORS, 48-LEAD TQFP	11, 27
HV254FG	32 CHANNEL HIGH VOLTAGE AMPLIFIER ARRAY, 100-LEAD MQFP	11, 27
HV254FG-G	32 CHANNEL HIGH VOLTAGE AMPLIFIER ARRAY, 100-LEAD MQFP, (GREEN)	
HV256FG	32-CHANNEL HIGH VOLTAGE AMPLIFIER ARRAY, 100-LEAD MQFP	11, 27
HV256FG-G	32-CHANNEL HIGH VOLTAGE AMPLIFIER ARRAY, 100-LEAD MQFP, (GREEN)	11, 27
HV257FG	32-CHANNEL HIGH VOLTAGE SAMPLE AND HOLD AMPLIFIER ARRAY, 100-LEAD MQFP	11, 27
HV257FG-G	32-CHANNEL HIGH VOLTAGE SAMPLE AND HOLD AMPLIFIER ARRAY, 100-LEAD MQFP, (GREEN)	11, 27
HV2601FG-G	LOW CHARGE INJECTION 16-CHANNEL HIGH VOLTAGE ANALOG SWITCH, 48-LEAD TQFP, (GREEN)	11, 27
HV2701FG-G	LOW CHARGE INJECTION 16-CHANNEL HIGH VOLTAGE ANALOG SWITCH, 48-LEAD TQFP, (GREEN)	11,27
HV3418PG	HVCMOS, 64-CHANNEL, 180V, PUSH/PULL, 80-LEAD PLASTIC GULLWING	9, 44
HV3418PG-G	HVCMOS, 64-CHANNEL, 180V, PUSH/PULL, 80-LEAD PLASTIC GULLWING, (GREEN)	9, 44
HV3922C	HVCMOS, PIN DIODE DRIVER, 220V, 20-LEAD CERAMIC DIP	23
HV3922DJ	HVCMOS, PIN DIODE DRIVER, 220V, 28-LEAD CERAMIC J-LEAD	23
HV430WG	HVCMOS, RING GENERATOR IC, 20-LEAD SOW	7, 13, 26, 44
HV430WG-G	HVCMOS, RING GENERATOR IC, 20-LEAD SOW (GREEN)	7, 13, 26, 44
HV440WG	HVCMOS, RING GENERATOR IC, 16-LEAD SOW	7, 13, 26, 44
HV440WG-G	HVCMOS, RING GENERATOR IC, 16-LEAD SOW (GREEN)	7, 13, 26, 44
HV441PJ	HVCMOS, RING GENERATOR IC, 44-LEAD PLCC	7, 13, 26, 44

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Part Number	Description	Page No.
HV441PJ-G	HVCMOS, RING GENERATOR IC, 44-LEAD PLCC, (GREEN)	7, 13, 26, 44
HV450WG	HVCMOS, RING GENERATOR IC, 16-LEAD SOW	7, 13, 26
HV4522DJ	HVCMOS, 32 P-CHANNEL, OPEN DRAIN W/CCW SHIFT REG, 220V, 44-LEAD CCC	9, 23
HV4522PG	HVCMOS, 32 P-CHANNEL, OPEN DRAIN W/CCW SHIFT REG, 220V, 44-LEAD GULLWING	9, 23
HV4522PJ	HVCMOS, 32 P-CHANNEL, OPEN DRAIN W/CCW SHIFT REG, 220V, 44-LEAD PCC	9, 23
HV461FG	RING GENERATOR CONTROLLER IC, 48-LEAD TQFP	7, 13, 26
HV461FG-G	RING GENERATOR CONTROLLER IC, 48-LEAD TQFP (GREEN)	7, 13, 26
HV4622DJ	HVCMOS, 32 P-CHANNEL, OPEN DRAIN W/CW SHIFT REG, 220V, 44-LEAD QUAD CERPAK	9, 23
HV4622PG	HVCMOS, 32 P-CHANNEL, OPEN DRAIN W/CW SHIFT REG, 220V, 44-LEAD GULLWING	9, 23
HV4622PJ	HVCMOS, 32 P-CHANNEL, OPEN DRAIN W/CW SHIFT REG, 220V, 44-LEAD PCC	9, 23
HV507PG	HVCMOS, 64-CHANNEL, PUSH PULL, 325V, 80-LEAD PLASTIC GULLWING	7, 9, 13, 24
HV507PG-G	HVCMOS, 64-CHANNEL, PUSH PULL, 325V, 80-LEAD PLASTIC GULLWING, (GREEN)	7, 9, 13, 24
HV508LG	HVCMOS, LARGE LIQUID CRYSTAL DISPLAY DRIVER, 45V, 8-LEAD SOIC	9, 24
HV508LG-G	HVCMOS, LARGE LIQUID CRYSTAL DISPLAY DRIVER, 45V, 8-LEAD SOIC, (GREEN)	9, 24
HV510WG	HVCMOS, 12-CHANNEL, PUSH-PULL, 240V, 24-LEAD SOW	24
HV5122DJ	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44-LEAD QUAD CERPAK	23
HV5122PG	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44 LEAD QUAD PLASTIC GULLWING	23
HV5122PG-G	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44 LEAD QUAD PLASTIC GULLWING, (GREEN)	23
HV5122PJ	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44-LEAD PLCC	23
HV5122PJ-G	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44-LEAD PLCC, (GREEN)	23
HV513WG	HVCMOS , 8-CHANNEL, W/PUSH-PULL OUTPUTS, 250V, 24-LEAD SOW	7, 13, 24
HV513WG-G	HVCMOS , 8-CHANNEL, W/PUSH-PULL OUTPUTS, 250V, 24-LEAD SOW (GREEN)	7, 13, 24
HV514WG	HVCMOS , 8-CHANNEL, W/PUSH-PULL OUTPUTS, 250V, 24-LEAD SOW	7, 13, 24
HV514WG-G	HVCMOS , 8-CHANNEL, W/PUSH-PULL OUTPUTS, 250V, 24-LEAD SOW, (GREEN)	7, 13, 24
HV518P	HVCMOS, 32-CHANNEL, SERIAL-INPUT LATCHED DRIVER, 80V, 40-LEAD P-DIP	9, 24
HV518PJ	HVCMOS, 32-CHANNEL, SERIAL-INPUT LATCHED DRIVER, 80V, 44-LEAD PLCC	9, 24
HV518PJ-G	HVCMOS, 32-CHANNEL, SERIAL-INPUT LATCHED DRIVER, 80V, 44-LEAD PLCC (GREEN)	9, 24
HV5222DJ	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS 220V, 44-LEAD QUAD CERPAK	23
HV5222PG	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44-LEAD PLASTIC GULLWING	23
HV5222PG-G	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44-LEAD PLASTIC GULLWING (GREEN)	23
HV5222PJ	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44-LEAD PLCC	23
HV5222PJ-G	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44-LEAD PLCC (GREEN)	23
HV5308BDJ	HVCMOS, 32-CHANNEL, W/HI-VOLT CMOS OUTPUTS, 80V, 44-LEAD QUAD CERPAK	9, 24
HV5308BPG	HVCMOS, 32-CHANNEL, W/HI-VOLT CMOS OUTPUTS, 80V, 44-LEAD PLASTIC GULLWING	9, 24
HV5308BPG-G	HVCMOS, 32-CHANNEL, W/HI-VOLT CMOS OUTPUTS, 80V, 44-LEAD PLASTIC GULLWING, (GREEN)	9, 24
HV5308BPJ	HVCMOS, 32-CHANNEL, W/HI-VOLT CMOS OUTPUTS, 80V, 44-LEAD PLCC	9, 24
HV5308BPJ-G	HVCMOS, 32-CHANNEL, W/HI-VOLT CMOS OUTPUTS, 80V, 44-LEAD PLCC, (GREEN)	9, 24
HV5408DJ	HVCMOS, 32-CHANNEL, W/HI-VOLT CMOS OUTPUTS, 80V, 44-LEAD QUAD CERPAK	9, 24

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Part Number	Description	Page No.
HV5408PG	HVCMOS, 32-CHANNEL, W/HI-VOLT CMOS OUTPUTS, 80V, 44-LEAD PLASTIC GULLWING	9, 24
HV5408PG-G	HVCMOS, 32-CHANNEL, W/HI-VOLT CMOS OUTPUTS, 80V, 44-LEAD PLASTIC GULLWING, (GREEN)	9, 24
HV5408PJ	HVCMOS, 32-CHANNEL, W/HI-VOLT CMOS OUTPUTS, 80V, 44-LEAD PLCC	9, 24
HV5408PJ-G	HVCMOS, 32-CHANNEL, W/HI-VOLT CMOS OUTPUTS, 80V, 44-LEAD PLCC, (GREEN)	9, 24
HV5522DJ	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44-LEAD QUAD CERPAK	9, 23
HV5522PG	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44-LEAD PLASTIC GULLWING	9, 23
HV5522PG-G	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44-LEAD PLASTIC GULLWING, (GREEN)	9, 23
HV5522PJ	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44-LEAD PLCC	9, 23
HV5522PJ-G	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44-LEAD PLCC, (GREEN)	9, 23
HV5530DJ	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 300V, 44-LEAD QUAD CERPAK	9, 23
HV5530PG	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 300V, 44-LEAD PLASTIC GULLWING	9, 23
HV5530PG-G	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 300V, 44-LEAD PLASTIC GULLWING, (GREEN)	9, 23
HV5530PJ	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 300V, 44-LEAD PLCC	9, 23
HV5530PJ-G	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 300V, 44-LEAD PLCC, (GREEN)	9, 23
HV5622DJ	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44-LEAD QUAD CERPAK	9, 23
HV5622PG	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44-LEAD PLASTIC GULLWING	9, 23
HV5622PG-G	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44-LEAD PLASTIC GULLWING (GREEN)	9, 23
HV5622PJ	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44-LEAD PLCC	9, 23
HV5622PJ-G	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 220V, 44-LEAD PLCC (GREEN)	9, 23
HV5630DJ	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 300V, 44-LEAD QUAD CERPAK	9, 23
HV5630PG	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 300V, 44-LEAD PLASTIC GULLWING	9, 23
HV5630PJ	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 300V, 44-LEAD PLCC	9, 23
HV5630PJ-G	HVCMOS, 32-CHANNEL, W/OPEN DRAIN OUTPUTS, 300V, 44-LEAD PLCC	9, 23
HV57009DG	HVCMOS, 64-CHANNEL, W/OPEN DRAIN OUTPUTS, 80-LEAD CERAMIC GULLWING	9, 23
HV57009PG	HVCMOS, 64-CHANNEL, W/OPEN DRAIN OUTPUTS, 80-LEAD PLASTIC GULLWING	9, 23
HV57009PG-G	HVCMOS, 64-CHANNEL, W/OPEN DRAIN OUTPUTS, 80-LEAD PLASTIC GULLWING, (GREEN)	9, 23
HV574PG	HVCMOS, 80-CHANNEL, PUSH PULL, 80V, 100-LEAD PLASTIC GULLWING	7, 9, 24
HV574PG-G	HVCMOS, 80-CHANNEL, PUSH PULL, 80V, 100-LEAD PLASTIC GULLWING (GREEN)	7, 9, 24
HV57708DG	HVCMOS, 64-CHANNEL, PUSH-PULL, 80V, 32MHz, 80-LEAD CERAMIC GULLWING	7, 9, 24
HV57708PG	HVCMOS, 64-CHANNEL, PUSH-PULL, 80V, 32MHz, 80-LEAD PLASTIC GULLWING	7, 9, 24
HV57708PG-G	HVCMOS, 64-CHANNEL, PUSH-PULL, 80V, 32MHz, 80-LEAD PLASTIC GULLWING (GREEN)	7, 9, 27
HV57908DG	HVCMOS, 64-CHANNEL, PUSH-PULL, 80V, 8MHz, 80-LEAD CERAMIC GULLWING	7, 9, 24
HV57908PG	HVCMOS, 64-CHANNEL, PUSH-PULL, 80V, 8MHz, 80-LEAD PLASTIC GULLWING	7, 9, 24
HV57908PG-G	HVCMOS, 64-CHANNEL, PUSH-PULL, 80V, 8MHz, 80-LEAD PLASTIC GULLWING (GREEN)	7, 9, 24
HV5812P	HVCMOS, 20-CHANNEL, DISPLAY DRIVER, 80V, 28-LEAD PLASTIC DIP	9, 24
HV5812P-G	HVCMOS, 20-CHANNEL, DISPLAY DRIVER, 80V, 28-LEAD PLASTIC DIP, (GREEN)	9, 24
HV5812PJ	HVCMOS, 20-CHANNEL, DISPLAY DRIVER, 80V, 28-LEAD QUAD PLASTIC	9, 24

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HV5812PJ-G	HVCMOS, 20-CHANNEL, DISPLAY DRIVER, 80V, 28-LEAD QUAD PLASTIC (GREEN)	9, 24
HV5812WG	HVCMOS, 20-CHANNEL, DISPLAY DRIVER, 80V, 16-LEAD SOW	9, 24
HV5812WG-G	HVCMOS, 20-CHANNEL, DISPLAY DRIVER, 80V, 16-LEAD SOW (GREEN)	9, 24
HV582FG-G	HVCMOS, 96-CHANNEL, AC DISPLAY DATA DRIVER, 80V, 160-LEAD LQFP (GREEN)	IV, 9
HV583X	HVCMOS, 128-CHANNEL, DISPLAY DRIVER, 80V, DIE FORM	9, 25
HV6008DJ	HVCMOS, 32-CHANNEL LCD DRIVER, 40V, 44-LEAD QUAD CERPAK	9, 25
HV6008PG	HVCMOS, 32-CHANNEL LCD DRIVER, 40V, 44-LEAD PLASTIC GULLWING	9, 25
HV6008PJ	HVCMOS, 32-CHANNEL LCD DRIVER, 40V, 44-LEAD PLCC	9, 25
HV632PG	HVCMOS, 32-CHANNEL GRAY-SHADE DRIVER, 80V, 64-LEAD 3-SIDED PLASTIC GULLWING	9, 25
HV632PG-G	HVCMOS, 32-CHANNEL GRAY-SHADE DRIVER, 80V, 64-LEAD 3-SIDED PLASTIC GULLWING, (GREEN)	9, 25
HV633PG	HVCMOS, 32-CHANNEL GRAY-SHADE DRIVER, 80V, 64-LEAD P 3-SIDED GULLWING	9, 25
HV633PG-G	HVCMOS, 32-CHANNEL GRAY-SHADE DRIVER, 80V, 64-LEAD P 3-SIDED GULLWING, (GREEN)	9, 25
HV66PG	HVCMOS, 32-CHANNEL LCD DRIVER WITH BACKPLANE, 32V, 44-LEAD QUAD PLASTIC GULLWING	25
HV66PJ	HVCMOS, 32-CHANNEL LCD DRIVER WITH BACKPLANE, 32V, 44-LEAD PLCC	25
HV6810P	HVCMOS, 10-CHANNEL, LATCHED DISPLAY DRIVER, 18-LEAD PLASTIC DIP	9, 25
HV6810PJ	HVCMOS, 10-CHANNEL, LATCHED DISPLAY DRIVER, 20 J-LEAD PLCC	9, 25
HV6810PJ-G	HVCMOS, 10-CHANNEL, LATCHED DISPLAY DRIVER, 20 J-LEAD PLCC, (GREEN)	9, 25
HV6810WG	HVCMOS, 10-CHANNEL, LATCHED DISPLAY DRIVER, 20-LEAD SOW	9, 25
HV6810WG-G	HVCMOS, 10-CHANNEL, LATCHED DISPLAY DRIVER, 20-LEAD SOW (GREEN)	9, 25
HV7022CDJ	HVCMOS, 34-CHANNEL, 230V, SYMMETRIC ROW DRIVER, 44-LEAD QUAD CERPAK	25
HV7022CPJ	HVCMOS, 34-CHANNEL, 230V, SYMMETRIC ROW DRIVER, 44-LEAD PLCC	25
HV7022CPJ-G	HVCMOS, 34-CHANNEL, 230V, SYMMETRIC ROW DRIVER, 44-LEAD PLCC (GREEN)	25
HV7100NG-G	24V/48V FAN DRIVER/CONTROLLER WITH HIGH-SIDEDRIVE, 14-LEAD SOIC (GREEN)	IV, 7
HV7224DG	HVCMOS, 40-CHANNEL, 240V, SYMMETRIC DRIVER, 64-LEAD CERAMIC GULLWING	9, 25
HV7224PG	HVCMOS, 40-CHANNEL, 240V, SYMMETRIC DRIVER, 64-LEAD PLASTIC GULLWING	9, 25
HV7224PG-G	HVCMOS, 40-CHANNEL, 240V, SYMMETRIC DRIVER, 64-LEAD PLASTIC GULLWING, (GREEN)	9, 25
HV732K6-G	HIGH SPEED $\pm 100V$ 2A INTEGRATED ULTRASOUND PULSER, 44-LEAD QFN (GREEN)	IV, 11, 4
HV7620DG	HVCMOS, 32-CHANNEL, PUSH-PULL, 4 SHIFT REGISTER, 80-LEAD CERAMIC GULLWING	9, 25
HV7620PG	HVCMOS, 32-CHANNEL, PUSH-PULL, 4 SHIFT REGISTER, 64-LEAD PLASTIC GULLWING	9, 25
HV7620PG-G	HVCMOS, 32-CHANNEL, PUSH-PULL, 4 SHIFT REGISTER, 64-LEAD PLASTIC GULLWING, (GREEN)	9, 25
HV7800K1-G	HIGH SIDE CURRENT MONITOR, 5-LEAD SOT-23 (GREEN)	IV, 13
HV809K2	HVCMOS, EL LAMP DRIVER, 7-LEAD TO-220	9, 13, 20, 44
HV809K2-G	HVCMOS, EL LAMP DRIVER, 7-LEAD TO-220, (GREEN)	9, 13, 20, 44
HV809LG	HVCMOS, EL LAMP DRIVER, 8 LEAD SOIC	9, 13, 20, 44
HV809LG-G	HVCMOS, EL LAMP DRIVER, 8-LEAD SOIC (GREEN)	9, 13, 20, 44
HV809SG	HVCMOS, EL LAMP DRIVER, 8-LEAD SOIC WITH HEAT SLUG	9, 13, 20, 44
HV809SG-G	HVCMOS, EL LAMP DRIVER, 8-LEAD SOIC WITH HEAT SLUG (GREEN)	9, 13, 20, 44

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HV823LG	HVCMOS, EL LAMP DRIVER, 8-LEAD SOIC	9, 13, 20, 44
HV823LG-G	HVCMOS, EL LAMP DRIVER, 8-LEAD SOIC (GREEN)	9, 13, 20, 44
HV825LG	HVCMOS, EL LAMP DRIVER, 8-LEAD SOIC	9, 13, 20, 44
HV825LG-G	HVCMOS, EL LAMP DRIVER, 8-LEAD SOIC, (GREEN)	9, 13, 20, 44
HV825MG	HVCMOS, EL LAMP DRIVER, 8-LEAD MSOP	9, 13, 20, 44
HV825MG-G	HVCMOS, EL LAMP DRIVER, 8-LEAD MSOP, (GREEN)	9, 13, 20, 44
HV826LG	HVCMOS, EL LAMP DRIVER, 8-LEAD SOIC	9, 13, 20, 44
HV826LG-G	HVCMOS, EL LAMP DRIVER, 8-LEAD SOIC, (GREEN)	9, 13, 20, 44
HV826MG	HVCMOS, EL LAMP DRIVER, 8-LEAD MSOP	9, 13, 20, 44
HV826MG-G	HVCMOS, EL LAMP DRIVER, 8-LEAD MSOP (GREEN)	9, 13, 20, 44
HV830LG	HVCMOS, EL LAMP DRIVER, 8-LEAD SOIC	9, 13, 23
HV830LG-G	HVCMOS, EL LAMP DRIVER, 8-LEAD SOIC (GREEN)	9, 13, 23
HV831MG	HIGH VOLTAGE LOW NOISE DUAL EL LAMP DRIVER, 10-LEAD MSOP	9, 13, 20, 44
HV831MG-G	HIGH VOLTAGE LOW NOISE DUAL EL LAMP DRIVER, 10-LEAD MSOP (GREEN)	9, 13, 20, 44
HV832MG	HVCMOS, DUAL EL LAMP DRIVER, 8-LEAD MSOP	9, 13, 20, 44
HV833MG	HVCMOS, EL LAMP DRIVER, 8-LEAD MSOP	9, 13, 20, 44
HV833MG-G	HVCMOS, EL LAMP DRIVER, 8-LEAD MSOP (GREEN)	9, 13, 20, 44
HV835K7-G	LOW NOISE DUAL EL LAMP DRIVER, 10-LEAD DFN/MLP (GREEN)	9, 13, 23
HV839K6-G	HIGH VOLTAGE LOW NOISE DUAL EL LAMP DRIVER, 10-LEAD DFN/MLP (GREEN)	9, 13, 20, 44
HV839MG-G	HIGH VOLTAGE LOW NOISE DUAL EL LAMP DRIVER, 10-LEAD MSOP (GREEN)	9, 13, 20, 44
HV841K6-G	HIGH VOLTAGE LOW NOISE DUAL EL LAMP DRIVER, 10-LEAD DFN/MLP (GREEN)	9, 13, 20
HV841MG-G	HIGH VOLTAGE LOW NOISE DUAL EL LAMP DRIVER, 10-LEAD MSOP (GREEN)	9, 13, 20
HV843K7-G	LOW NOISE DUAL EL LAMP DRIVER, 10-LEAD DFN/MLP PACKAGE (GREEN)	IV, 9, 13, 20
HV845K7-G	LOW NOISE DUAL EL LAMP DRIVER, 12-LEAD QFN/MLP PACKAGE (GREEN)	IV, 9, 13, 20
HV850MG	HVCMOS, INDUCTORLESS EL LAMP DRIVER, 8-LEAD MSOP	9, 13, 20
HV850MG-G	HVCMOS, INDUCTORLESS EL LAMP DRIVER, 8-LEAD MSOP (GREEN)	9, 13, 20
HV852MG-G	HIGH VOLTAGE, LOW NOISE, INDUCTORLESS EL LAMP DRIVER, 8-LEAD MSOP (GREEN)	9, 13, 20
HV852K7-G	HIGH VOLTAGE, LOW NOISE, INDUCTORLESS EL LAMP DRIVER, 10-LEAD DFN/MLP (GREEN)	9, 13, 20
HV856K7-G	HIGH VOLTAGE, LOW NOISE, TRIPLE EL LAMP DRIVER, 10-LEAD DFN/MLP (GREEN)	9, 13, 20
HV857K7-G	HVCMOS, EL LAMP DRIVER, 8-LEAD DFN/MLP (GREEN)	9, 13, 20
HV857MG-G	HVCMOS, EL LAMP DRIVER, 8-LEAD MSOP (GREEN)	9, 13, 20
HV857LK7-G	HIGH VOLTAGE, LOW NOISE, EL LAMP DRIVER, 8-LEAD DFN/MLP (GREEN)	9, 13, 20
HV857LMG-G	HIGH VOLTAGE, LOW NOISE, EL LAMP DRIVER, 8-LEAD MSOP (GREEN)	9, 13, 20
HV858K7-G	HVCMOS, TRIPLE EL LAMP DRIVER, 10-LEAD DFN/MLP (GREEN)	IV, 9, 13, 20
HV858MG-G	HVCMOS, TRIPLE EL LAMP DRIVER, 10-LEAD MSOP (GREEN)	IV, 9, 13, 20
HV859K7-G	HVCMOS, EL LAMP DRIVER, 8-LEAD DFN/MLP (GREEN)	IV, 9, 13, 20
HV859MG-G	HVCMOS, EL LAMP DRIVER, 8-LEAD MSOP (GREEN)	IV, 9, 13, 20
HV860K7-G	HVCMOS, EL LAMP DRIVER, 12-LEAD DFN/MLP (GREEN)	IV, 9, 13, 20
HV9100P	HVCMOS, SWITCHMODE CONTROLLER W/150V MOSFET, 14-LEAD PLASTIC DIP	7, 13, 22
HV9100PJ	HVCMOS, SWITCHMODE CONTROLLER W/150V MOSFET, 20-LEAD PLCC	7, 13, 22

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HV9102P	HVCMOS, SWITCHMODE CONTROLLER W/200V MOSFET, 14-LEAD PLASTIC DIP	7, 13, 22
HV9102PJ	HVCMOS, SWITCHMODE CONTROLLER W/200V MOSFET, 20-LEAD PLCC	7, 13, 22
HV9103P	HVCMOS, SWITCHMODE CONTROLLER W/200V MOSFET, 14-LEAD PLASTIC DIP	7, 13, 22
HV9103PJ	HVCMOS, SWITCHMODE CONTROLLER W/200V MOSFET, 20-LEAD PLCC	7, 13, 22
HV9110NG	HVCMOS, SWITCHMODE CONTROLLER, 120V, 1% REF, 14-LEAD SOIC	7, 13, 22, 44
HV9110NG-G	HVCMOS, SWITCHMODE CONTROLLER, 120V, 1% REF, 14-LEAD SOIC (GREEN)	7, 13, 22, 44
HV9110P	HVCMOS, SWITCHMODE CONTROLLER, 120V, 1% REF, 14-LEAD PLASTIC DIP	7, 13, 22, 44
HV9110PJ	HVCMOS, SWITCHMODE CONTROLLER, 120V, 1% REF, 20-LEAD PLCC	7, 13, 22, 44
HV9112NG	HVCMOS, SWITCHMODE CONTROLLER, 120V, 2% REF, 14-LEAD SOIC	7, 13, 22
HV9112NG-G	HVCMOS, SWITCHMODE CONTROLLER, 120V, 2% REF, 14-LEAD SOIC, (GREEN)	7, 13, 22
HV9112P	HVCMOS, SWITCHMODE CONTROLLER, 120V, 2% REF, 14-LEAD PLASTIC DIP	7, 13, 22
HV9112PJ	HVCMOS, SWITCHMODE CONTROLLER, 120V, 2% REF, 20-LEAD PLCC	7, 13, 22
HV9113NG	HVCMOS, SWITCHMODE CONTROLLER, 120V, 1% REF, 14-LEAD SOIC	7, 13, 22
HV9113NG-G	HVCMOS, SWITCHMODE CONTROLLER, 120V, 1% REF, 14-LEAD SOIC, (GREEN)	7, 13, 22
HV9113P	HVCMOS, SWITCHMODE CONTROLLER, 120V, 1% REF, 14-LEAD PLASTIC DIP	7, 13, 22
HV9113PJ	HVCMOS, SWITCHMODE CONTROLLER, 120V, 1% REF, 20-LEAD PLCC	7, 13, 22
HV9120NG	HVCMOS, SWITCHMODE CONTROLLER, 450V, 2% REF, 16-LEAD SOIC	7, 13, 22
HV9120NG-G	HVCMOS, SWITCHMODE CONTROLLER, 450V, 2% REF, 16-LEAD SOIC (GREEN)	7, 13, 22
HV9120P	HVCMOS, SWITCHMODE CONTROLLER, 450V, 2% REF, 16-LEAD PLASTIC DIP	7, 13, 22
HV9120P-G	HVCMOS, SWITCHMODE CONTROLLER, 450V, 2% REF, 16-LEAD PLASTIC DIP, (GREEN)	7, 13, 22
HV9120PJ	HVCMOS, SWITCHMODE CONTROLLER, 450V, 2% REF, 20-LEAD PLCC	7, 13, 22
HV9120PJ-G	HVCMOS, SWITCHMODE CONTROLLER, 450V, 2% REF, 20-LEAD PLCC (GREEN)	7, 13, 22
HV9123NG	HVCMOS, SWITCHMODE CONTROLLER, 450V, 2% REF, 16-LEAD SOIC	7, 13, 22
HV9123NG-G	HVCMOS, SWITCHMODE CONTROLLER, 450V, 2% REF, 16-LEAD SOIC, (GREEN)	7, 13, 22
HV9123P	HVCMOS, SWITCHMODE CONTROLLER, 450V, 2% REF, 16-LEAD PLASTIC DIP	7, 13, 22
HV9123P-G	HVCMOS, SWITCHMODE CONTROLLER, 450V, 2% REF, 16-LEAD PLASTIC DIP, (GREEN)	7, 13, 22
HV9123PJ	HVCMOS, SWITCHMODE CONTROLLER, 450V, 2% REF, 20-LEAD PLCC	7, 13, 22
HV9123PJ-G	HVCMOS, SWITCHMODE CONTROLLER, 450V, 2% REF, 20-LEAD PLCC, (GREEN)	7, 13, 22
HV9308PJ	HVCMOS, 32-CHANNEL, W/HI-VOLT CMOS OUTPUTS, 80V, 44-LEAD PLCC	25
HV9308PJ-G	HVCMOS, 32-CHANNEL, W/HI-VOLT CMOS OUTPUTS, 80V, 44-LEAD PLCC, (GREEN)	25
HV9408PJ	HVCMOS, 32-CHANNEL, W/HI-VOLT CMOS OUTPUTS, 80V, 44-LEAD PLCC	25
HV9408PJ	HVCMOS, 32-CHANNEL, W/HI-VOLT CMOS OUTPUTS, 80V, 44-LEAD PLCC, (GREEN)	25
HV9608TS	ACTIVE CLAMP CURRENT-MODE PWM CONTROLLER, 16-LEAD TSSOP	7, 13, 22
HV9708PJ	HVCMOS, 32-CHANNEL, W/HI-VOLT CMOS OUTPUTS, 80V, 44-LEAD PLCC	25
HV9708PJ-G	HVCMOS, 32-CHANNEL, W/HI-VOLT CMOS OUTPUTS, 80V, 44-LEAD PLCC, (GREEN)	25
HV9808PJ	HVCMOS, 32-CHANNEL, W/HI-VOLT CMOS OUTPUTS, 80V, 44-LEAD PLCC	25
HV9901NG	UNIVERSAL RELAY DRIVER, 16-LEAD SOIC	19, 21
HV9901NG-G	UNIVERSAL RELAY DRIVER, 16-LEAD SOIC (GREEN)	19, 21
HV9901P	UNIVERSAL RELAY DRIVER, 16-LEAD PLASTIC DIP	19, 21
HV9903K6	WHITE LED DRIVER, 6-LEAD MLP	9, 13, 19
HV9903K6-G	WHITE LED DRIVER, 6-LEAD MLP (GREEN)	9, 13, 19

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HV9910LG	UNIVERSAL HIGH BRIGHTNESS LED DRIVER, 8-LEAD SOIC	9, 13, 16, 17, 21
HV9910LG-G	UNIVERSAL HIGH BRIGHTNESS LED DRIVER, 8-LEAD SOIC (GREEN)	9, 13, 16, 17, 21
HV9910NG	UNIVERSAL HIGH BRIGHTNESS LED DRIVER, 16-LEAD SOIC	9, 13, 16, 17, 21
HV9910NG-G	UNIVERSAL HIGH BRIGHTNESS LED DRIVER, 16-LEAD SOIC (GREEN)	9, 13, 19, 44
HV9910P	UNIVERSAL HIGH BRIGHTNESS LED DRIVER, 8-LEAD PLASTIC DIP	9, 13, 19, 44
HV9910P-G	UNIVERSAL HIGH BRIGHTNESS LED DRIVER, 8-LEAD PLASTIC DIP (GREEN)	9, 13, 19, 44
HV9910BLG	UNIVERSAL HIGH BRIGHTNESS LED DRIVER, 8-LEAD SOIC	9, 13, 19, 44
HV9910BLG-G	UNIVERSAL HIGH BRIGHTNESS LED DRIVER, 8-LEAD SOIC (GREEN)	9, 13, 19, 44
HV9910BNG	UNIVERSAL HIGH BRIGHTNESS LED DRIVER, 16-LEAD SOIC	9, 13, 19, 44
HV9910BNG-G	UNIVERSAL HIGH BRIGHTNESS LED DRIVER, 16-LEAD SOIC (GREEN)	9, 13, 19, 44
HV9911NG-G	SWITCH-MODE LED DRIVER WITH HIGH CURRENT ACCURACY, 16-LEAD SOIC (GREEN)	IV, 9, 13, 19, 45
HV9921N3-G	3-PIN SWITCH MODE-LED LAMP DRIVER IC, 20mA, TO-92 (GREEN)	IV, 9, 13, 19
HV9921N8-G	3-PIN SWITCH MODE-LED LAMP DRIVER IC, 20mA, SOT-89 (GREEN)	IV, 9, 13, 19
HV9922N3-G	3-PIN SWITCH MODE-LED LAMP DRIVER IC, 50mA, TO-92 (GREEN)	IV, 9, 13, 19, 45
HV9922N8-G	3-PIN SWITCH MODE-LED LAMP DRIVER IC, 50mA, SOT-89 (GREEN)	IV, 9, 13, 19, 45
HV9923N3-G	3-PIN SWITCH MODE-LED LAMP DRIVER IC, 30mA, TO-92 (GREEN)	IV, 9, 13, 19
HV9923N8-G	3-PIN SWITCH MODE-LED LAMP DRIVER IC, 30mA, SOT-89 (GREEN)	IV, 9, 13, 19
HV9925SG-G	PROGRAMMABLE-CURRENT LED LAMP DRIVER IC, 50mA, 8-LEAD SOIC (GREEN)	IV, 9, 13, 19
HV9930LG-G	HYSTERETIC BOOST-BUCK LED DRIVER, 8-LEAD SOIC (GREEN)	9, 13, 19, 44
HV9931LG-G	UNITY POWER FACTOR LED LAMP DRIVER, 8-LEAD SOIC (GREEN)	IV, 9, 13, 19, 44
LND150N3	MOSFET, N-CHANNEL, DEPLETION-MODE, 500V, 1K $\Omega$ , TO-92	7, 28, 44
LND150N3-G	MOSFET, N-CHANNEL, DEPLETION-MODE, 500V, 1K $\Omega$ , TO-92 (GREEN)	7, 28, 44
LND150N8	MOSFET, N-CHANNEL, DEPLETION-MODE, 500V, 1K $\Omega$ , SOT-89	7, 28, 44
LND150N8-G	MOSFET, N-CHANNEL, DEPLETION-MODE, 500V, 1K $\Omega$ , SOT-89 (GREEN)	7, 28, 44
LND250K1	MOSFET, N-CHANNEL, DEPLETION-MODE, 500V, 1K $\Omega$ , SOT-23	7, 14, 28
LND250K1-G	MOSFET, N-CHANNEL, DEPLETION-MODE, 500V, 1K $\Omega$ , SOT-23 (GREEN)	7, 14, 28
LP0701LG	MOSFET, P-CHANNEL, 16.5V, 1.5 $\Omega$ , 8-LEAD SOIC	31, 44
LP0701LG-G	MOSFET, P-CHANNEL, 16.5V, 1.5 $\Omega$ , 8-LEAD SOIC (GREEN)	31, 44
LP0701N3	MOSFET, P-CHANNEL, 16.5V, 1.5 $\Omega$ , TO-92	31, 44
LP0701N3-G	MOSFET, P-CHANNEL, 16.5V, 1.5 $\Omega$ , TO-92 (GREEN)	31, 44
LR12K4	HIGH INPUT VOLTAGE ADJUSTABLE 3-TERMINAL LINEAR REGULATOR, 3-LEAD TO-252	7, 9, 13, 19, 21
LR12K4-G	HIGH INPUT VOLTAGE ADJUSTABLE 3-TERMINAL LINEAR REGULATOR, 3-LEAD TO-252 (GREEN)	7, 9, 13, 19, 21
LR12LG	HIGH INPUT VOLTAGE ADJUSTABLE 3-TERMINAL LINEAR REGULATOR, 8-LEAD SOIC	7, 9, 13, 19, 21
LR12LG-G	HIGH INPUT VOLTAGE ADJUSTABLE 3-TERMINAL LINEAR REGULATOR, 8-LEAD SOIC (GREEN)	7, 9, 13, 19, 21
LR12N3	HIGH INPUT VOLTAGE ADJUSTABLE 3-TERMINAL LINEAR REGULATOR, TO-92	7, 9, 13, 19, 21
LR12N3-G	HIGH INPUT VOLTAGE ADJUSTABLE 3-TERMINAL LINEAR REGULATOR, TO-92 (GREEN)	7, 9, 13, 19, 21
LR645LG	FIXED/ADJUSTABLE HIGH INPUT VOLTAGE REGULATOR, 8-LEAD SOIC	7, 13, 21
LR645LG-G	FIXED/ADJUSTABLE HIGH INPUT VOLTAGE REGULATOR, 8-LEAD SOIC (GREEN)	7, 13, 21
LR645N3	FIXED/ADJUSTABLE HIGH INPUT VOLTAGE REGULATOR, TO-92	7, 13, 21

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LR645N3-G	FIXED/ADJUSTABLE HIGH INPUT VOLTAGE REGULATOR, TO-92 (GREEN)	7, 13, 21
LR645N5	FIXED/ADJUSTABLE HIGH INPUT VOLTAGE REGULATOR, TO-220	7, 13, 21
LR645N5-G	FIXED/ADJUSTABLE HIGH INPUT VOLTAGE REGULATOR, TO-220 (GREEN)	7, 13, 21
LR645N8	FIXED/ADJUSTABLE HIGH INPUT VOLTAGE REGULATOR, SOT-89	7, 13, 21
LR645N8-G	FIXED/ADJUSTABLE HIGH INPUT VOLTAGE REGULATOR, SOT-89 (GREEN)	7, 13, 21
LR745N3	SWITCHMODE POWER SUPPLY START-UP IC, TO-92	7, 13, 21
LR745N3-G	SWITCHMODE POWER SUPPLY START-UP IC, TO-92 (GREEN)	7, 13, 21
LR745N8	SWITCHMODE POWER SUPPLY START-UP IC, SOT-89	7, 13, 21
LR8K4	HIGH VOLTAGE ADJUSTABLE 3-TERMINAL LINEAR REGULAR, 450V, TO-252	7, 9, 13, 19, 21, 44
LR8K4-G	HIGH VOLTAGE ADJUSTABLE 3-TERMINAL LINEAR REGULAR, 450V, TO-252 (GREEN)	7, 9, 13, 19, 21, 44
LR8N3	HIGH VOLTAGE ADJUSTABLE 3-TERMINAL LINEAR REGULAR, 450V, TO-92	7, 9, 13, 19, 21, 44
LR8N3-G	HIGH VOLTAGE ADJUSTABLE 3-TERMINAL LINEAR REGULAR, 450V, TO-92 (GREEN)	7, 9, 13, 19, 21, 44
LR8N8	HIGH VOLTAGE ADJUSTABLE 3-TERMINAL LINEAR REGULAR, 450V, SOT 89	7, 9, 13, 19, 21, 44
LR8N8-G	HIGH VOLTAGE ADJUSTABLE 3-TERMINAL LINEAR REGULAR, 450V, SOT 89 (GREEN)	7, 9, 13, 19, 21, 44
MD1210K6-G	HIGH SPEED DUAL MOSFET DRIVER, 12-LEAD QFN (GREEN)	11, 26, 42, 44
MD1211LG-G	HIGH SPEED, DUAL MOSFET DRIVER, 8-LEAD SOIC (GREEN)	IV, 11, 26
MD1711FG	HIGH SPEED INTEGRATED ULTRASOUND DRIVER, 36-LEAD LQFP	11, 26, 42
MD1711FG-G	HIGH SPEED INTEGRATED ULTRASOUND DRIVER, 36-LEAD LQFP (GREEN)	11, 26, 42
MD1810K6-G	HIGH SPEED QUAD MOSFET DRIVER, 16-LEAD QFN/MLP (GREEN)	IV, 11, 26, 44
MD1811K6-G	HIGH SPEED QUAD MOSFET DRIVER, 16-LEAD QFN/MLP (GREEN)	IV, 11, 26, 44
MD1812K6-G	HIGH SPEED QUAD MOSFET DRIVER, 16-LEAD QFN/MLP (GREEN)	IV, 11, 26, 45
MD1813K6-G	HIGH SPEED QUAD MOSFET DRIVER, 16-LEAD QFN/MLP (GREEN)	IV, 11, 26, 45
PS10NG	QUAD POWER SEQUENCING CONTROLLER, 14-LEAD SOIC	7, 13
PS10NG-G	QUAD POWER SEQUENCING CONTROLLER, 14-LEAD SOIC, (GREEN)	7, 13
PS11NG	QUAD POWER SEQUENCING CONTROLLER, 14-LEAD SOIC (INVERTED LOGIC)	7, 13
PS12NG-G	QUAD POWER SEQUENCING CONTROLLER, 16-LEAD SOIC, (GREEN)	7, 13
SR086SG-G	HIGH INPUT VOLTAGE SWITCHMODE CONTROLLER REGULATOR, 8-LEAD SOIC w/HEAT SLUG (GREEN)	IV, 7, 9, 13, 26
SR087SG-G	HIGH INPUT VOLTAGE SWITCHMODE CONTROLLER REGULATOR, 8-LEAD SOIC w/HEAT SLUG (GREEN)	IV, 7, 9, 13, 26
TC2320TG	MOSFET, N AND P CHANNEL, 200V, 8-LEAD SOIC	11, 14, 29
TC2320TG-G	MOSFET, N AND P CHANNEL, 200V, 8-LEAD SOIC (GREEN)	11, 14, 29
TC6320TG	MOSFET, N AND P CHANNEL, 200V, 8-LEAD SOIC	11, 14, 29
TC6320TG-G	MOSFET, N AND P CHANNEL, 200V, 8-LEAD SOIC (GREEN)	11, 14, 29
TC7320FG	MOSFET, 6 N- and P-CHANNEL, 200V, 36-LEAD LQFP	11, 14, 29
TC7320FG-G	MOSFET, 6 N- and P-CHANNEL, 200V, 36-LEAD LQFP (GREEN)	11, 14, 29
TD9944TG	MOSFET, DUAL N-CHANNEL, 240V, 6Ω, SOIC	11, 14, 29
TD9944TG-G	MOSFET, DUAL N-CHANNEL, 240V, 6Ω, SOIC (GREEN)	11, 14, 29
TN0104N3	MOSFET, N-CHANNEL, 40V, 1.8Ω, TO-92	14, 29
TN0104N3-G	MOSFET, N-CHANNEL, 40V, 1.8Ω, TO-92 (GREEN)	14, 29

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TN0104N8	MOSFET, N-CHANNEL, 40V, 2.0Ω, SOT-89	14, 29
TN0104N8-G	MOSFET, N-CHANNEL, 40V, 2.0Ω, SOT-89 (GREEN)	14, 29
TN0106N3	MOSFET, N-CHANNEL, 60V, 3.0Ω, TO-92	14, 29
TN0106N3-G	MOSFET, N-CHANNEL, 60V, 3.0Ω, TO-92 (GREEN)	14, 29
TN0110N3	MOSFET, N-CHANNEL, 100V, 3.0Ω, TO-92	14, 29
TN0110N3-G	MOSFET, N-CHANNEL, 100V, 3.0Ω, TO-92 (GREEN)	14, 29
TN0604N3	MOSFET, N-CHANNEL, 40V, 0.75Ω, TO-92	14, 28, 29, 44
TN0604N3-G	MOSFET, N-CHANNEL, 40V, 0.75Ω, TO-92 (GREEN)	14, 28, 29, 44
TN0604WG	MOSFET, N-CHANNEL, QUAD, 40V, 1.0Ω, 20 LEAD SOW	14, 28, 29, 44
TN0604WG-G	MOSFET, N-CHANNEL, QUAD, 40V, 1.0Ω, 20 LEAD SOW	14, 28, 29, 44
TN0606N3	MOSFET, N-CHANNEL, 60V, 1.5Ω, TO-92	14, 29
TN0606N3-G	MOSFET, N-CHANNEL, 60V, 1.5Ω, TO-92 (GREEN)	14, 29
TN0610N3	MOSFET, N-CHANNEL, 100V, 1.5Ω, TO-92	14, 29
TN0610N3-G	MOSFET, N-CHANNEL, 100V, 1.5Ω, TO-92 (GREEN)	14, 29
TN0620N3	MOSFET, N-CHANNEL, 200V, 6.0Ω, TO-92	14, 29
TN0620N3-G	MOSFET, N-CHANNEL, 200V, 6.0Ω, TO-92 (GREEN)	14, 29
TN0702N3	MOSFET, N-CHANNEL, 20V, 1.3Ω, TO-92	7, 14, 29
TN0702N3-G	MOSFET, N-CHANNEL, 20V, 1.3Ω, TO-92 (GREEN)	7, 14, 29
TN1504NW	MOSFET, N-CHANNEL, 40V, 3Ω, DIE	29
TN1506NW	MOSFET, N-CHANNEL, 60V, 3Ω, DIE	14, 29
TN1510NW	MOSFET, N-CHANNEL, 100V, 3Ω, DIE	14, 29
TN2106K1	MOSFET, N-CHANNEL, 60V, 2.5Ω, SOT-23	14, 29
TN2106K1-G	MOSFET, N-CHANNEL, 60V, 2.5Ω, SOT-23 (GREEN)	14, 29
TN2106N3	MOSFET, N-CHANNEL, 60V, 2.5Ω, TO-92	14, 29
TN2106N3-G	MOSFET, N-CHANNEL, 60V, 2.5Ω, TO-92 (GREEN)	14, 29
TN2124K1	MOSFET, N-CHANNEL, 240V, 15Ω, SOT-23	14, 29
TN2124K1-G	MOSFET, N-CHANNEL, 240V, 15Ω, SOT-23 (GREEN)	14, 29
TN2130K1	MOSFET, N-CHANNEL, 300V, 25Ω, SOT-23	7, 14, 29
TN2130K1-G	MOSFET, N-CHANNEL, 300V, 25Ω, SOT-23 (GREEN)	7, 14, 29
TN2425N8	MOSFET, N-CHANNEL, 250V, 3.5Ω, SOT-89	14, 29
TN2425N8-G	MOSFET, N-CHANNEL, 250V, 3.5Ω, SOT-89 (GREEN)	14, 29
TN2435N8	MOSFET, N-CHANNEL, 350V, 10Ω, SOT-89	14, 29
TN2435N8-G	MOSFET, N-CHANNEL, 350V, 10Ω, SOT-89, (GREEN)	14, 29
TN2501N8	MOSFET, N-CHANNEL, 18V, 2.5Ω, SOT-89	14, 29
TN2501N8-G	MOSFET, N-CHANNEL, 18V, 2.5Ω, SOT-89 (GREEN)	7, 14, 29
TN2504N8	MOSFET, N-CHANNEL, 40V, 1.0Ω, SOT-89	14, 29
TN2504N8-G	MOSFET, N-CHANNEL, 40V, 1.0Ω, SOT-89 (GREEN)	14, 29
TN2510N8	MOSFET, N-CHANNEL, 100V, 1.5Ω, SOT-89	14, 30
TN2510N8-G	MOSFET, N-CHANNEL, 100V, 1.5Ω, SOT-89 (GREEN)	14, 30
TN2524N8	MOSFET, N-CHANNEL, 240V, 6.0Ω, SOT-89	11, 14, 30
TN2524N8-G	MOSFET, N-CHANNEL, 240V, 6.0Ω, SOT-89 (GREEN)	11, 14, 30

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TN2535N8	MOSFET, N-CHANNEL, 350V, 10Ω, SOT-89	14, 30
TN2535N8-G	MOSFET, N-CHANNEL, 350V, 10Ω, SOT-89, (GREEN)	14, 30
TN2540N3	MOSFET, N-CHANNEL, 400V, 12Ω, TO-92	7, 14, 30
TN2540N3-G	MOSFET, N-CHANNEL, 400V, 12Ω, TO-92 (GREEN)	7, 14, 30
TN2540N8	MOSFET, N-CHANNEL, 400V, 12Ω, SOT-89	7, 14, 30
TN2540N8-G	MOSFET, N-CHANNEL, 400V, 12Ω, SOT-89 (GREEN)	7, 14, 30
TN2640K4	MOSFET, N-CHANNEL, 400V, 5.0Ω, TO-252	7, 11, 14, 30
TN2640K4-G	MOSFET, N-CHANNEL, 400V, 5.0Ω, TO-252 (GREEN)	7, 11, 14, 30
TN2640LG	MOSFET, N-CHANNEL, 400V, 5.0Ω, 8-LEAD SOIC	7, 11, 14, 30
TN2640LG-G	MOSFET, N-CHANNEL, 400V, 5.0Ω, 8-LEAD SOIC (GREEN)	7, 11, 14, 30
TN2640N3	MOSFET, N-CHANNEL, 400V, 5.0Ω, TO-92	7, 11, 14, 30
TN2640N3-G	MOSFET, N-CHANNEL, 400V, 5.0Ω, TO-92 (GREEN)	7, 11, 14, 30
TN5325K1	MOSFET, N-CHANNEL, 250V, 7.0Ω, SOT 23	11, 14, 30
TN5325K1-G	MOSFET, N-CHANNEL, 250V, 7.0Ω, SOT 23 (GREEN)	11, 14, 30
TN5325N3	MOSFET, N-CHANNEL, 250V, 7.0Ω, TO-92	11, 14, 30
TN5325N3-G	MOSFET, N-CHANNEL, 250V, 7.0Ω, TO-92 (GREEN)	11, 14, 30
TN5325N8	MOSFET, N-CHANNEL, 250V, 7.0Ω, SOT-89	11, 14, 30
TN5325N8-G	MOSFET, N-CHANNEL, 250V, 7.0Ω, SOT-89 (GREEN)	11, 14, 30
TN5335K1	MOSFET, N-CHANNEL, 350V, 15Ω, SOT 23	7, 14, 30
TN5335K1-G	MOSFET, N-CHANNEL, 350V, 15Ω, SOT 23 (GREEN)	7, 14, 30
TN5335N8	MOSFET, N-CHANNEL, 350V, 15Ω, SOT 89	7, 14, 30
TN5335N8-G	MOSFET, N-CHANNEL, 350V, 15Ω, SOT 89 (GREEN)	7, 14, 30
TP0604N3	MOSFET, P-CHANNEL, 40V, 2.0Ω, TO-92	14
TP0604N3-G	MOSFET, P-CHANNEL, 40V, 2.0Ω, TO-92 (GREEN)	14
TP0604WG	MOSFET, P-CHANNEL, QUAD, 40V, 2.0Ω, 20-LEAD SOW	14
TP0606N3	MOSFET, P-CHANNEL, 60V, 3.5Ω, TO-92	14, 31
TP0606N3-G	MOSFET, P-CHANNEL, 60V, 3.5Ω, TO-92 (GREEN)	14, 31
TP0610T	MOSFET, P-CHANNEL, 40V, 10Ω, SOT-23	14, 31
TP0610T-G	MOSFET, P-CHANNEL, 40V, 10Ω, SOT-23 (GREEN)	14, 31
TP0620N3	MOSFET, P-CHANNEL, 200V, 12Ω, TO-92	14, 31
TP0620N3-G	MOSFET, P-CHANNEL, 200V, 12Ω, TO-92 (GREEN)	14, 31
TP2104K1	MOSFET, P-CHANNEL, 40V, 6.0Ω, SOT-23	11, 14, 31
TP2104K1-G	MOSFET, P-CHANNEL, 40V, 6.0Ω, SOT-23 (GREEN)	11, 14, 31
TP2104N3	MOSFET, P-CHANNEL, 40V, 6.0Ω, TO-92	11, 14, 31
TP2104N3-G	MOSFET, P-CHANNEL, 40V, 6.0Ω, TO-92 (GREEN)	11, 14, 31
TP2424N8	MOSFET, P-CHANNEL, 240V, 8Ω, SOT-89	11, 14, 31
TP2424N8-G	MOSFET, P-CHANNEL, 240V, 8Ω, SOT-89, (GREEN)	11, 14, 31
TP2435N8	MOSFET, P-CHANNEL, 350V, 15Ω, SOT-89	7, 14, 31
TP2435N8-G	MOSFET, P-CHANNEL, 350V, 15Ω, SOT-89 (GREEN)	7, 14, 31
TP2502N8	MOSFET, P-CHANNEL, 20V, 2.0Ω, SOT-89	14, 31
TP2502N8-G	MOSFET, P-CHANNEL, 20V, 2.0Ω, SOT-89 (GREEN)	14, 31

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Part Number	Description	Page No.
TP2510N8	MOSFET, P-CHANNEL, 100V, 3.5Ω, SOT-89	14, 31
TP2510N8-G	MOSFET, P-CHANNEL, 100V, 3.5Ω, SOT-89 (GREEN)	14, 31
TP2520N8	MOSFET, P-CHANNEL, 200V, 12Ω, SOT-89	11, 14, 31
TP2520N8-G	MOSFET, P-CHANNEL, 200V, 12Ω, SOT-89 (GREEN)	7, 11, 14, 31
TP2522N8	MOSFET, P-CHANNEL, 220V, 12Ω, SOT-89	7, 11, 14, 31
TP2522N8-G	MOSFET, P-CHANNEL, 220V, 12Ω, SOT-89 (GREEN)	7, 11, 14, 31
TP2535N3	MOSFET, P-CHANNEL, 350V, 25Ω, TO-92	14, 31
TP2535N3-G	MOSFET, P-CHANNEL, 350V, 25Ω, TO-92, (GREEN)	14, 31
TP2540N3	MOSFET, P-CHANNEL, 400V, 25Ω, TO-92	7, 14, 31
TP2540N3-G	MOSFET, P-CHANNEL, 400V, 25Ω, TO-92 (GREEN)	7, 14, 31
TP2540N8	MOSFET, P-CHANNEL, 400V, 25Ω, SOT-89	7, 14, 31
TP2540N8-G	MOSFET, P-CHANNEL, 400V, 25Ω, SOT-89 (GREEN)	7, 14, 31
TP2635N3	MOSFET, P-CHANNEL, 350V, 15Ω, TO-92	7, 14, 31
TP2635N3-G	MOSFET, P-CHANNEL, 350V, 15Ω, TO-92 (GREEN)	7, 14, 31
TP2640LG	MOSFET, P-CHANNEL, 400V, 15Ω, 8 LEAD SOIC	7, 14, 31
TP2640LG-G	MOSFET, P-CHANNEL, 400V, 15Ω, 8 LEAD SOIC, (GREEN)	7, 14, 31
TP2640N3	MOSFET, P-CHANNEL, 400V, 15Ω, TO-92	7, 14, 31
TP2640N3-G	MOSFET, P-CHANNEL, 400V, 15Ω, TO-92 (GREEN)	7, 14, 31
TP5322K1	MOSFET, P-CHANNEL, 220V, 12Ω, SOT-89	11, 14, 31
TP5322K1-G	MOSFET, P-CHANNEL, 220V, 12Ω, SOT-89, (GREEN)	11, 14, 31
TP5322N8	MOSFET, P-CHANNEL, 220V, 12Ω, SOT-23	11, 14, 31
TP5322N8-G	MOSFET, P-CHANNEL, 220V, 12Ω, SOT-23 (GREEN)	11, 14, 31
TP5335K1	MOSFET, P-CHANNEL, 350V, 25Ω, SOT 23	14, 31
TP5335K1-G	MOSFET, P-CHANNEL, 350V, 25Ω, SOT 23 (GREEN)	14, 31
VN0104N3	MOSFET, N-CHANNEL, 40V, 3.0Ω, TO-92	14, 30
VN0104N3-G	MOSFET, N-CHANNEL, 40V, 3.0Ω, TO-92 (GREEN)	14, 30
VN0106N3	MOSFET, N-CHANNEL, 60V, 3.0Ω, TO-92	14, 30
VN0106N3-G	MOSFET, N-CHANNEL, 60V, 3.0Ω, TO-92 (GREEN)	14, 30
VN0300L	MOSFET, N-CHANNEL, 30V, 1.2Ω, TO-92	14, 30
VN0300L-G	MOSFET, N-CHANNEL, 30V, 1.2Ω, TO-92 (GREEN)	14, 30
VN0550N3	MOSFET, N-CHANNEL, 500V, 60Ω, TO-92	14, 30
VN0550N3-G	MOSFET, N-CHANNEL, 500V, 60Ω, TO-92 (GREEN)	14, 30
VN0606L	MOSFET, N-CHANNEL, 60V, 3.0Ω, TO-92	14, 30
VN0606L-G	MOSFET, N-CHANNEL, 60V, 3.0Ω, TO-92 (GREEN)	14, 30
VN0808L	MOSFET, N-CHANNEL, 80V, 4.0Ω, TO-92	14, 30
VN0808L-G	MOSFET, N-CHANNEL, 80V, 4.0Ω, TO-92 (GREEN)	14, 30
VN10KN3	MOSFET, N-CHANNEL, 60V, 5.0Ω, TO-92	14, 30
VN10KN3-G	MOSFET, N-CHANNEL, 60V, 5.0Ω, TO-92 (GREEN)	14, 30
VN1206L	MOSFET, N-CHANNEL, 120V, 6.0Ω, TO-92	14, 30
VN1206L	MOSFET, N-CHANNEL, 120V, 6.0Ω, TO-92, (GREEN)	14, 30
VN1504NW	MOSFET, N-CHANNEL, 40V, 4.0Ω, DIE	14, 30

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Part Number	Description	Page No.
VN1506NW	MOSFET, N-CHANNEL, 60V, 4.0Ω, DIE	14, 30
VN1509NW	MOSFET, N-CHANNEL, 90V, 4.0Ω, DIE	14, 30
VN2106N3	MOSFET, N-CHANNEL, 60V, 4.0Ω, TO-92	14, 30
VN2106N3-G	MOSFET, N-CHANNEL, 60V, 4.0Ω, TO-92, (GREEN)	14, 30
VN2110K1	MOSFET, N-CHANNEL, 100V, 4.0Ω, SOT-23	11, 14, 30
VN2110K1-G	MOSFET, N-CHANNEL, 100V, 4.0Ω, SOT-23 (GREEN)	11, 14, 30
VN2210N2	MOSFET, N-CHANNEL, 100V, 0.35Ω, TO-39	14, 30
VN2210N3	MOSFET, N-CHANNEL, 100V, 0.35Ω, TO-92	14, 30
VN2210N3-G	MOSFET, N-CHANNEL, 100V, 0.35Ω, TO-92 (GREEN)	14, 30
VN2222LL	MOSFET, N-CHANNEL, 60V, 7.5Ω, TO-92	14, 30
VN2222LL-G	MOSFET, N-CHANNEL, 60V, 7.5Ω, TO-92 (GREEN)	14, 30
VN2222NC	MOSFET, N-CHANNEL, 220V, 1.25Ω, 20 LEAD CERAMIC DIP	14, 30
VN2224N3	MOSFET, N-CHANNEL, 240V, 1.25Ω, TO-92	14, 30
VN2224N3-G	MOSFET, N-CHANNEL, 240V, 1.25Ω, TO-92 (GREEN)	14, 30
VN2406L	MOSFET, N-CHANNEL, 240V, 6.0Ω, TO-92	14, 30
VN2406L-G	MOSFET, N-CHANNEL, 240V, 6.0Ω, TO-92 (GREEN)	14, 30
VN2410L	MOSFET, N-CHANNEL, 240V, 10Ω, TO-92	14, 30
VN2410L-G	MOSFET, N-CHANNEL, 240V, 10Ω, TO-92, (GREEN)	14, 30
VN2450N3	MOSFET, N-CHANNEL, 500V, 13Ω, TO-92	7, 14, 30
VN2450N3-G	MOSFET, N-CHANNEL, 500V, 13Ω, TO-92, (GREEN)	7, 14, 30
VN2450N8	MOSFET, N-CHANNEL, 500V, 13Ω, SOT-89	7, 14, 30
VN2450N8-G	MOSFET, N-CHANNEL, 500V, 13Ω, SOT-89 (GREEN)	7, 14, 30
VN2460N3	MOSFET, N-CHANNEL, 600V, 20Ω, TO-92	14, 30
VN2460N3-G	MOSFET, N-CHANNEL, 600V, 20Ω, TO-92 (GREEN)	14, 30
VN2460N8	MOSFET, N-CHANNEL, 600V, 20Ω, SOT-89	14, 30
VN2460N8-G	MOSFET, N-CHANNEL, 600V, 20Ω, SOT-89 (GREEN)	14, 30
VN3205N3	MOSFET, N-CHANNEL, 50V, 0.3Ω, TO-92	14, 30
VN3205N3-G	MOSFET, N-CHANNEL, 50V, 0.3Ω, TO-92, (GREEN)	14, 30
VN3205N6	MOSFET, N-CHANNEL, 50V, 0.3Ω, 14 LEAD PLASTIC DIP	14, 30
VN3205N8	MOSFET, N-CHANNEL, 50V, 0.3Ω, SOT-89	14, 30
VN3205N8-G	MOSFET, N-CHANNEL, 50V, 0.3Ω, SOT-89 (GREEN)	14, 30
VN3515L	MOSFET, N-CHANNEL, 350V, 15Ω, TO-92	14, 30
VN3515L-G	MOSFET, N-CHANNEL, 350V, 15Ω, TO-92, (GREEN)	14, 30
VN4012L	MOSFET, N-CHANNEL, 400V, 12Ω, TO-92	14, 30
VN4012L-G	MOSFET, N-CHANNEL, 400V, 12Ω, TO-92 (GREEN)	14, 30
VP0104N3	MOSFET, P-CHANNEL, 40V, 8.0Ω, TO-92	14, 31
VP0104N3-G	MOSFET, P-CHANNEL, 40V, 8.0Ω, TO-92 (GREEN)	14, 31
VP0106N3	MOSFET, P-CHANNEL, 60V, 8.0Ω, TO-92	14, 31
VP0106N3-G	MOSFET, P-CHANNEL, 60V, 8.0Ω, TO-92 (GREEN)	14, 31
VP0109N3	MOSFET, P-CHANNEL, 90V, 8.0Ω, TO-92	14, 31
VP0109N3-G	MOSFET, P-CHANNEL, 90V, 8.0Ω, TO-92 (GREEN)	14, 31

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Part Number	Description	Page No.
VP0550N3	MOSFET, P-CHANNEL, 500V, 125Ω, TO-92	14, 31
VP0550N3-G	MOSFET, P-CHANNEL, 500V, 125Ω, TO-92, (GREEN)	14, 31
VP0808L	MOSFET, P-CHANNEL, 80V, 5.0Ω, TO-92	14, 31
VP0808L-G	MOSFET, P-CHANNEL, 80V, 5.0Ω, TO-92 (GREEN)	14, 31
VP1504NW	MOSFET, P-CHANNEL, 40V, 8.0Ω, DIE	14, 31
VP1504NW	MOSFET, P-CHANNEL, 60V, 8.0Ω, DIE	14, 31
VP1504NW	MOSFET, P-CHANNEL, 80V, 8.0Ω, DIE	14, 31
VP2106N3	MOSFET, P-CHANNEL, 60V, 12Ω, TO-92	14, 31
VP2106N3-G	MOSFET, P-CHANNEL, 60V, 12Ω, TO-92 (GREEN)	14, 31
VP2110K1	MOSFET, P-CHANNEL, 100V, 12Ω, SOT-23	14, 31
VP2110K1-G	MOSFET, P-CHANNEL, 100V, 12Ω, SOT-23 (GREEN)	14, 31
VP2206N2	MOSFET, P-CHANNEL, 60V, 0.9Ω, TO-39	31
VP2206N3	MOSFET, P-CHANNEL, 60V, 0.9Ω, TO-92	31
VP2206N3-G	MOSFET, P-CHANNEL, 60V, 0.9Ω, TO-92, (GREEN)	31
VP2450N3	MOSFET, P-CHANNEL, 500V, 30Ω, TO-92	7, 31
VP2450N3-G	MOSFET, P-CHANNEL, 500V, 30Ω, TO-92, (GREEN)	7, 31
VP2450N8	MOSFET, P-CHANNEL, 500V, 30Ω, SOT-89	7, 31
VP2450N8-G	MOSFET, P-CHANNEL, 500V, 30Ω, SOT-89 (GREEN)	7, 31
VP3203N3	MOSFET, P-CHANNEL, 30V, 0.6Ω, TO-92	31
VP3203N3-G	MOSFET, P-CHANNEL, 30V, 0.6Ω, TO-92, (GREEN)	31
VP3203N8	MOSFET, P-CHANNEL, 30V, 0.6Ω, SOT-89	31
VP3203N8-G	MOSFET, P-CHANNEL, 30V, 0.6Ω, SOT-89 (GREEN)	31

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[www.thomlukesales.com](http://www.thomlukesales.com)



## **Representatives - Central United States**

### **Arkansas**

Kruvand Associates, Inc.  
1202 Richardson Drive, Suite 113  
Richardson, TX 75080  
Phone: (972) 437-3355  
Fax: (972) 680-8854  
www.kruvand.com

### **Illinois - Northern**

HLC Ltd.  
1228 W. Northwest Highway  
Palatine, IL 60067  
Phone: (847) 358-6500  
Fax: (847) 358-6576  
hlcsales@hlcltd.com  
www.hlcltd.com

### **Illinois - Southern**

Vector Design Technology  
RF Welch Division  
1360 S. Fifth Street, Suite 367  
St. Charles, MO 63301  
Phone (636) 723-2888  
Fax: (636) 723-0041  
mhoefert@vectordesigntech.com  
www.vectordesigntech.com

### **Indiana**

Tempest Technical Sales  
13295 Meridian Corners Blvd.  
Carmel, Indiana 46032  
Phone: (317) 844-9236  
Fax: (317) 844-9019  
kevin@tempesttechsales.com  
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### **Iowa**

Vector Design Technology  
RF Welch Division  
3349 Southgate Court SW  
Cedar Rapids, IA 52404  
Phone: (319) 362-6824  
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aellis@vectordesigntech.com  
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### **Kansas/Nebraska**

Vector Design Technology  
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8500 College Blvd.  
Overland Park, KS 66210  
Phone: (913) 338-7165  
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### **Kentucky**

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13295 Meridian Corners Blvd.  
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Phone: (972) 437-3355  
Fax: (972) 680-8854  
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### **Louisiana - South**

Kruvand Associates, Inc.  
4607 Diamond Springs  
Missouri City, TX 77459  
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Fax: (281) 431-5065  
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### **Michigan**

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13295 Meridian Corners Blvd.  
Carmel, Indiana 46032  
Phone: (260) 434-0942  
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todd@tempesttechsales.com  
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### **Minnesota**

Vector Design Technology  
2277 West Hwy 36, Suite 224  
Roseville, MN 55113  
Phone: (651) 631-1334  
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mbye@vectordesigntech.com  
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### **Missouri**

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### **Ohio - Central**

National Choice Technologies  
9853 Johnnycake Ridge Rd.  
Mentor, Ohio 44060  
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natchoice@aol.com  
www.nctechnologies.net

### **Ohio - Northern**

National Choice Technologies  
997 Goldenrod Drive  
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Phone: (330) 562-2841  
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plesler@aol.com  
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Fax: (972) 680-8854  
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### **Pennsylvania - East**

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1045 Millcreek Rd  
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MNolan.nexus@verizon.net  
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### **Pennsylvania - Central**

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13809 Research Blvd., Suite 755  
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### **Texas - North Houston**

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10601 Grant Road, Suite 104  
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Phone: (281) 890-9766  
Fax: (281) 469-4053  
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### **Texas - South Houston**

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4607 Diamond Springs  
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Fax: (281) 431-5065  
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### **Connecticut**

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### **Florida**

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www.empiretechnical.com

Empire Technical Associates  
349 W. Commercial St., Suite 2920  
East Rochester, NY 14445  
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Fax: (716) 381-0911  
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## **Representatives - Canada and Mexico**

### **Canada**

#### **British Columbia**

Cascade Technical Sales  
12445-188th St  
Pitt Meadows, BC V3Y2G8  
Phone: (425) 822-7299  
Fax: (425) 822-7479  
www.cascade-tech.com

#### **Central**

Starvoy Technologies Inc.  
Phone: (604) 506-0472  
Fax: (604) 736-5901  
dlyons@starvoy.com  
www.starvoy.com

#### **Montreal**

Starvoy Technologies Inc.  
7575 Transcanada Highway, Suite  
212  
St. Laurent, Quebec  
H4T 1V6  
Phone: (514) 832-0774  
Fax: (514) 832-0178  
kbailey@starvoy.com  
www.starvoy.com

#### **Ottawa (Head Office)**

Starvoy Technologies Inc.  
4017 Carling Avenue  
Suite 101  
Kanata, Ontario  
Canada K2K 2A3  
Phone: (613) 670-8100  
Fax: (613) 592-5441  
kbailey@starvoy.com  
www.starvoy.com

#### **Toronto**

Starvoy Technologies Inc.  
6205 Airport Road  
Building A, Suite 300  
Mississauga, Ontario  
Canada LV4 1E1  
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### **Mexico**

#### **Guadalajara**

Kruvand de Mexico  
Mariano Otero 3225 Int. 8 y 9  
Col. Verde Valle  
Código Postal 44550  
Guadalajara Jalisco, México  
Phone: (011 52) 333 6714159  
Fax: (011 52) 333 6719010  
www.kruvand.com

#### **El Paso/Juarez**

Kruvand de Mexico  
4120 Rio Bravo  
Suite 106  
El Paso, TX 79902  
Phone: (915) 313-3961  
Fax: (915) 313-3962  
Order/Sample/Quote  
Fax: (972) 680-8854  
www.kruvand.com

## Distributors - Western United States

### Arizona

#### Phoenix

Arrow Electronics, Inc.  
 Phone: (480) 966-6600  
 Fax: (480) 966-4826  
<http://www.arrow.com>

All American  
 Phone: (480) 281-1198  
 Fax: (480) 966-0007  
[pho\\_info@allamerican.com](mailto:pho_info@allamerican.com)  
[www.allamerican.com](http://www.allamerican.com)

Nu Horizons  
 Phone: (602) 685-9000  
 Fax: (602) 730-1780  
[blemieux@nuhorizons.com](mailto:blemieux@nuhorizons.com)  
[www.nuhorizons.com](http://www.nuhorizons.com)

### California

#### Fremont

All American  
 Phone: (510) 623-3660  
 Fax: (510) 623-3666  
[www.allamerican.com](http://www.allamerican.com)

#### Irvine

Arrow Electronics, Inc.  
 Phone: (949) 380-4700  
 Fax: (949) 454-4206  
[www.arrow.com](http://www.arrow.com)

Nu Horizons  
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[irvsales@nuhorizons.com](mailto:irvsales@nuhorizons.com)  
[www.nuhorizons.com](http://www.nuhorizons.com)

#### Los Angeles

Arrow Electronics, Inc.  
 Phone: (818) 932-1000  
 Fax: (818) 932-1020  
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Nu Horizons  
 Phone: (818) 874-9600  
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### Orange County

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 Fax: (714) 229-8603  
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#### Sacramento

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 Phone: (916) 783-9953  
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[sacsales@nuhorizons.com](mailto:sacsales@nuhorizons.com)  
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 Phone: (858) 549-2400  
 Fax: (858) 549-2959  
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[www.allamerican.com](http://www.allamerican.com)

Arrow Electronics, Inc.  
 Phone: (858) 558-6600  
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 Phone: (858) 576-0088  
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#### San Fernando Valley

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 Fax: (408) 437-8970  
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### Oregon

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Schuster Electronics  
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**Nu Horizons**  
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**Galant Electronics.**  
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