

SUPERTEX Drivers and Demo Boards



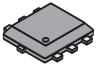
SUPERTEX LED DRIVER INTEGRATED CIRCUITS AND DEMO BOARDS

◆ Surface Mount Device

White LED Driver IC

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Package	Supply Voltage (V)	Input Voltage (V)	R _{SET} (Ω)	Internally Regulated Voltage (V)(Typ)	LED Current (Min/Max) (mA)	Supply Current (mA)(Max)	Price Each		
								1	100	500
◆ 689—HV9903K6-G	MLP-6	2.6 - 4.6	1.8 - 12.5	1.5K	3.3	5.0/40	1.6	1.06	.88	.82



MLP-6

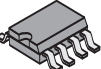
Universal High Brightness LED Driver ICs

MOUSER STOCK NO.	Package	Input DC Supply Voltage (V)	Current For Ext. Circuitry (Max)(mA)	Shut-Down Mode Supply Current (Max)(mA)	Internally Regulated Voltage (V)(Typ)	Curr. Sense Pull-in Thresh Voltage (Min/Max)(mV)	Oscillator Frequency (Min/Max)(kHz)	Price Each		
								1	100	500
◆ 689—HV9910LG-G	SO-8	8.0 - 450	1	1	7.5	225/275	20(1MΩ)/120(226kΩ)	1.12	.93	.86
◆ 689—HV9910P	DIP-8	8.0 - 450	1	1	7.5	225/275	20(1MΩ)/120(226kΩ)	1.05	.87	.80
◆ 689—HV9910NG-G	SO-16	8.0 - 450	1	1	7.5	225/275	20(1MΩ)/120(226kΩ)	1.24	1.03	.95

Switchmode LED Driver IC with High Current Accuracy

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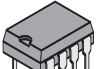
MOUSER STOCK NO.	Package	DC Input Voltage (V)	IC Shut-Down Voltage (Typ) (V)	Shut-Down Mode Supply Current (Max.) (mA)	Internally Regulated Voltage (Typ) (V)	Undervoltage Lockout Hysteresis (Typ)(mV)	Reference Pin Voltage (Min/Typ/Max)(V)	Price Each		
								1	100	500
◆ 689—HV9911NG-G	SOIC-16	0.5 - 250	1.25	1.5	7.75	12	1.225/1.25/1.275	1.58	1.31	1.21



SO-8

3-Pin Switchmode LED Driver ICs

MOUSER STOCK NO.	Package	DC Input Voltage (V)	AC Input Voltage (V)	Constant Output Current (mA)	ON Resistance (Ω)	Operating Supply Current (Typ/Max)(uA)	Threshold Current (Min/Max)(mA)	Price Each		
								1	100	500
◆ 689—HV9921N3-G	TO-92	20 - 400	85 - 264	20.0	210	250/350	20.5/25.5	.78	.65	.60
◆ 689—HV9921N8-G	SOT-89	20 - 400	85 - 264	20.0	210	250/350	20.5/25.5	.82	.68	.63
◆ 689—HV9923N3-G	TO-92	20 - 400	85 - 264	30.0	210	200/350	30.8/38.2	.80	.66	.61
◆ 689—HV9923N8-G	SOT-89	20 - 400	85 - 264	30.0	210	200/350	30.8/38.2	.84	.70	.64
◆ 689—HV9922N3-G	TO-92	20 - 400	85 - 264	50.0	210	250/350	52/63	.84	.70	.64
◆ 689—HV9922N8-G	SOT-89	20 - 400	85 - 264	50.0	210	250/350	52/63	.87	.73	.67



DIP-8

Programmable-Current LED Lamp Driver IC with PWM Dimming

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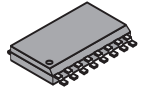
MOUSER STOCK NO.	Package	DC Input Voltage (V)	AC Input Voltage (V)	Programmable Output Current Max. (mA)	ON Resistance (Ω)	Operating Supply Current (Typ/Max) (uA)	Power Dissipation @ 25°C Max. (mW)	Price Each		
								1	100	500
◆ 689—HV9925SG-G	SOIC-8	20 - 400	85 - 264	50.0	200	300/500	800	1.22	1.01	.93

Hyster Boost-Buck LED Driver ICs

MOUSER STOCK NO.	Package	Input DC Supply Voltage (V)	Current For Ext. Circuitry (Max)(mA)	Shut-Down Mode Supply Current (Max)(mA)	Internally Regulated Voltage (V)(Typ)	PWM Pull-Down Resistance (Min/Max)(kΩ)	Reference Pin Voltage (Min/Typ/Max)(V)	Price Each		
								1	100	500
◆ 689—HV9930LG-G	SO-8	8.0 - 200	1	1	7.5	50/150	1.212/1.25/1.288	1.24	1.03	.95
◆ 689—HV9930P-G	DIP-8	8.0 - 200	1	1	7.5	50/150	1.212/1.25/1.288	1.18	.98	.91

Unity Power Factor LED Lamp Driver ICs

MOUSER STOCK NO.	Package	Input DC Supply Voltage (V)	AC Input Voltage (V)	Shut-Down Mode Supply Current (Max)(mA)	Internally Regulated Voltage (V)(Typ)	PWM Pull-Down Resistance (Min/Max)(kΩ)	PWM Input Voltage (Low/High) (V)	Price Each		
								1	100	500
◆ 689—HV9931LG-G	SOIC-8	8.0 - 450	85 - 264	1	7.5	50/150	1.0(Max)/2.4(Min)	1.24	1.03	.95
◆ 689—HV9931P-G	DIP-8	8.0 - 450	85-264	1	7.5	50/150	1.0(Max)/2.4(Min)	1.18	.98	.91



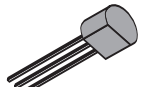
SO-16

Temperature Compensated Constant Current LED Driver ICs

MOUSER STOCK NO.	Package	DC Input Voltage (V)	Current Regulation (Typ)(mA)	Maximum Operating Voltage (V)	Dynamic Resistance (Typ)(Ω)	Power Dissipation @ TA = 25°C (W)	Temperature Coefficient %/°C	Price Each		
								1	100	500
◆ 689—CL2K4-G	TO-252	5.0 - 90	20	100	300k	2.0	0.01	.70	.58	.54
◆ 689—CL2N8-G	SOT-89	5.0 - 90	20	100	300k	1.3	0.01	.49	.41	.38
◆ 689—CL2N3-G	TO-92	5.0 - 90	20	100	300k	0.6	0.01	.44	.36	.34

Linear Fixed Constant Current LED Driver ICs

MOUSER STOCK NO.	Package	Supply Voltage (V)	Current into VDD pin (Min/Typ/Max) (mA)	Current into OUT pin (Min/Typ/Max) (mA)	Thermal Resistance Junct-Case (Typ) (°C/W)	Thermal Resistance Junct-Ambient (Typ) (°C/W)	Overtemperature Limit (°C) Min/Typ/Max.	Price Each		
								1	100	500
◆ 689—CL6K4-G	TO-252	6.5 - 28	3.0/5.0/10	90/100/110	1.3	40	120/135/150	1.52	1.26	1.17
◆ 689—CL6N5-G	TO-220	6.5 - 28	3.0/5.0/10	90/100/110	2.5	62	120/135/150	1.62	1.34	1.24



TO-92

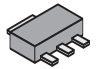
Linear Fixed Constant Current LED Driver ICs with Enable

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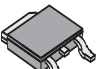
MOUSER STOCK NO.	Package	Supply Voltage (V)	Output Voltage (V)	Enable Voltage (V)	Storage Temperature (Typ)°C/W	Thermal Resistance Junct-Ambient (Typ) (°C/W)	Overtemperature Limit (°C) Min/Typ/Max.	Price Each		
								1	100	500
◆ 689—CL7SG-G	SOIC-8	-25 to 100	-25 to 100	-0.5 to +6.5	-65 to +150°C	67	120/150/150	1.82	1.52	1.40

LED Driver IC Demo Boards

MOUSER STOCK NO.	Description	Price Each
689—HV9903DB1	Contains all the necessary circuitry to demonstrate the features of the HV9903 white LED driver	70.00
689—HV9910DB1	Off-line, high brightness LED driver demo board. It contains all the necessary circuitry to test the performance of the HV9910 as a constant current driver to drive a string or multiple strings of LEDs	150.00
689—HV9910DB2	Universal off-line high brightness LED driver demo board. The board can be used to test the performance of HV9910 as a constant driver to power a string or multiple strings of LEDs	150.00
689—HV9910DB3	Low voltage, high brightness LED driver demo board. The board can be used to test the performance of the HV9910 as a constant driver to power LEDs	90.00
689—HV9911DB1	High brightness boost LED driver demo board. The demo board is capable of driving up to 20 one-watt LEDs in series from an input of 21-27VDC. The demo board uses the HV9911 in a boost topology.	150.00
689—HV9921DB1	Universal off-line LED driver demo board. The demo board is a complete LED power driver to supply a string of string of LEDs using the HV9921, an integrated 3-pin high input voltage constant-current buck regulator IC	90.00
689—HV9922DB1	Universal off-line LED driver demo board. The demo board is a complete LED power driver to supply a string of string of LEDs using the HV9922, an integrated 3-pin high input voltage constant-current buck regulator IC	90.00
689—HV9923DB1	A complete LED power driver demo board that can supply a string of LEDs using the HV9923 driver IC. It integrates a 500V switching MOSFET and can operate directly from the rectified universal AC line voltage range of 80 to 264VAC	90.00
689—HV9930DB1	High brightness LED driver demo board. The board uses an LED driver that is capable of driving up to 7 1-watt LEDs in series from an automotive input of 9 to 25 VDC. The demo board uses Supertex's HV9930 in a boost-buck topology.	90.00
689—HV9930DB2	High brightness boost-buck LED driver demo board. The demo board uses an LED driver that is capable of driving 4 3-watt LEDs in series from an input of 9 to 25 VDC. The demo board uses Supertex's HV9930 in a boost-buck topology.	90.00
689—HV9931DB1	A universal input non-isolated constant current source for powering a strings of high-bright LEDs. It operates from the universal 90-260VAC range and accepts an external PWM dimming signal for controlling the duty ratio of the output current.	200.00



SOT-89



TO-252