

SUPERTEX LED Drivers

Supertex

RoHS compliant **This product is RoHS compliant.**

Supertex offers an extensive line of high-performance LED driver products for architectural lighting, display backlighting, and general lighting applications. Their LED driver ICs range from simple, low cost linear regulators to feature-rich switching regulators configured in buck, boost, buck-boost, and SEPIC topologies. These LED driver ICs offer high efficiency, excellent LED current matching, very low noise, and a wide dimming range. In addition, they have a very wide input voltage range up to 450V and multiple output capabilities in the smallest footprints.

GENERAL PURPOSE LED DRIVERS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Supertex Part No.	Package	Topology	V _{IN} (V)		Output Current (mA)	Dimming	Price Each		
				Min.	Max.			1	100	500
689-HV9910BLG-G	HV9910BLG-G	SOIC-8	Buck	8	450	External FET	PWM/Linear	1.35	.99	.95
689-HV9921N3-G	HV9921N3-G	TO-92	Buck	20	400	20	No	.78	.65	.60
689-HV9921N8-G	HV9921N8-G	SOT89	Buck	20	400	20	No	.82	.68	.63
689-HV9923N3-G	HV9923N3-G	TO-92	Buck	20	400	30	No	.80	.66	.61
689-HV9923N8-G	HV9923N8-G	SOT-89	Buck	20	400	30	No	.84	.70	.64
689-HV9922N3-G	HV9922N3-G	TO-92	Buck	20	400	50	No	.84	.70	.64
689-HV9922N8-G	HV9922N8-G	SOT-89	Buck	20	400	50	No	.87	.73	.67
689-HV9925SG-G	HV9925SG-G	SOIC-8	Buck	20	400	20-50	PWM	1.22	1.01	.93
689-HV9801ALG-G	HV9801ALG-G	SOIC-8	Buck	15	450	External FET	4-Level Switch	1.48	1.01	.92
689-HV9801ANG-G	HV9801ANG-G	SOIC-16	Buck	15	450	External FET	4-Level Switch	1.38	.94	.88
689-HV9930LG-G	HV9930LG-G	SOIC-8	Hysteriac	8	200	External FET	PWM	1.24	1.03	.95
Unity Power Factor LED Lamp Driver ICs										
689-HV9931LG-G	HV9931LG-G	SOIC-8	Single Switch PFC	8	450	External FET	PWM	1.24	1.03	.95
Isolated, Constant Current LED Driver										
689-HV9971LG-G	HV9971LG-G	SOIC-8	Flyback	-	-	External FET	PWM	1.71	1.50	1.17
Hysteriac, Buck, High Brightness LED Driver with High-Side Current Sensing										
689-HV9919BK7-G	HV9919BK7-G	DFN-8	Buck	4.5	40	External FET	PWM	.76	.68	.596
Integrated LED Driver with Average-Mode Current Control										
689-HV9967BMG-G	HV9967BMG-G	MSOP-8	Buck	8	60	External FET	PWM/Linear	1.49	.95	-
689-HV9967BK7-G	HV9967BK7-G	DFN-8	Buck	8	60	External FET	PWM/Linear	1.52	.97	-
LED Driver with Average-Mode, Constant Current Control										
689-HV9861ALG-G	HV9861ALG-G	SOIC-8	Buck	12	450	External FET	PWM/Linear	2.10	1.63	1.25
689-HV9861ANG-G	HV9861ANG-G	SOIC-16	Buck	12	450	External FET	PWM/Linear	2.88	1.98	1.45

HIGH VOLTAGE LED DRIVERS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Supertex Part No.	Package	LED Type	Driver Type	Input Volt. (VDC)	Output Voltage (V)	Output Current (mA)	Dimming Type	Number of LEDs	Output Efficiency (%)	Configuration	Price Each		
												1	100	500
689-HV9910BLG-G	HV9910BLG-G	SOIC-8	Universal	Switching	9 - 250	Ext FET	Ext FET	PWM/Linear	Multiple	> 90	Series	1.35	.99	.95
689-HV9911NG-G	HV9911NG-G	SOIC-16	Universal	Switching	9 - 250	Ext FET	Ext FET	PWM/Linear	Multiple	> 90	Series	1.58	1.31	1.21
689-HV9921N3-G	HV9921N3-G	TO-92	Universal	Buck	20 - 400	12 - 80	20	N/A	4 - 20	> 80	Series	.78	.65	.60
689-HV9921N8-G	HV9921N8-G	SOT-89	Universal	Buck	20 - 400	12 - 80	20	N/A	4 - 20	> 80	Series	.82	.68	.63
689-HV9923N8-G	HV9923N8-G	SOT-89	Universal	Buck	20 - 400	12 - 80	30	N/A	4 - 20	> 80	Series	.84	.70	.64
689-HV9922N3-G	HV9922N3-G	TO-92	Universal	Buck	20 - 400	12 - 80	50	N/A	4 - 20	> 80	Series	.84	.70	.64
689-HV9922N8-G	HV9922N8-G	SOT-89	Universal	Buck	20 - 400	12 - 80	50	N/A	4 - 20	> 80	Series	.87	.73	.67
689-HV9925SG-G	HV9925SG-G	SOIC-8	Universal	Buck	20 - 400	12 - 80	20 - 50	PWM/Linear	4 - 20	> 80	Series	1.22	1.01	.93
689-HV9930LG-G	HV9930LG-G	SOIC-8	Universal	Boost/Buck	8 - 200	Configurable	Ext FET	PWM	Configurable	> 80	Series	1.24	1.03	.95
689-HV9931LG-G	HV9931LG-G	SOIC-8	Universal	Boost/Buck	8 - 200	Configurable	Ext FET	PWM	Configurable	> 80	Series	1.24	1.03	.95
689-HV9912NG-G	HV9912NG-G	SOIC-16	Universal	Switching	9 - 90	Ext FET	Ext FET	PWM/Linear	< 50	> 90	Series	1.66	1.50	1.33
689-HV9918K7-G	HV9918K7-G	DFN-8	Universal	Boost/Buck	4.5 - 40	Configurable	Ext FET	PWM	Configurable	> 80	Series	1.20	.98	.832
689-HV9961LG-G	HV9961LG-G	SOIC-8	Universal	Boost/Buck	8 - 200	Configurable	Ext FET	PWM	Configurable	> 80	Series	2.24	1.68	1.61
689-CL2K4-G	CL2K4-G	TO-252-3	Universal	Linear	5 - 90	90	20	N/A	1 - 30	> 90	Series/Parallel	.70	.58	.54
689-CL2N3-G	CL2N3-G	TO-92	Universal	Linear	5 - 90	90	20	N/A	1 - 30	> 90	Series/Parallel	.44	.36	.34
689-CL2N8-G	CL2N8-G	SOT-89	Universal	Linear	5 - 90	90	20	N/A	1 - 30	> 90	Series/Parallel	.49	.41	.38
689-CL6K4-G	CL6K4-G	TO-252	Universal	Linear	4 - 90	90	100	N/A	1 - 30	> 90	Series/Parallel	1.52	1.26	1.17
689-CL6N5-G	CL6N5-G	TO-220	Universal	Linear	4 - 90	90	100	N/A	1 - 30	> 90	Series/Parallel	1.62	1.34	1.24
689-CL800K6-G	CL800K6-G	QFN-40	Universal	Linear	90 - 275	350	115	External	Multiple	> 90	Series/Parallel	4.38	4.05	3.43
689-CL801K6-G	CL801K6-G	QFN-40	Universal	Linear	90 - 275	350	200	External	Multiple	> 90	Series/Parallel	4.38	4.05	3.43

BACKLIGHT LED DRIVERS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Supertex Part No.	Package	Topology	V _{IN} (V)		Output Current (mA)	Dimming	Price Each		
				Min.	Max.			1	100	500
Switchmode LED Driver IC with High Current Accuracy										
689-HV9911NG-G	HV9911NG-G	SOIC-16	Boost, SEPIC, Buck-Boost	9	250	External FET	PWM	1.58	1.31	1.21
Three-Channel CCM/DCM Boost LED Driver w/ Sub-Microsec PWM Dimming										
689-HV9989K6-G	HV9989K6-G	QFN-40	Boost, SEPIC	10	40	External FET	PWM/Linear	4.92	4.08	3.89

LINEAR REGULATORS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Supertex Part No.	Package	V _{IN} (V)		V _{OUT} (V)		Output Current (mA)	Dimming	Paralleable	Price Each		
			Min.	Max.	Min.	Max.				1	100	500
Temperature Compensated Constant Current LED Driver ICs												
689-CL2K4-G	CL2K4-G	TO-525-3	5	90	5	90	20	External FET	Yes	.70	.58	.54
689-CL2N8-G	CL2N8-G	SOT-89	5	90	5	90	20	External FET	Yes	.49	.41	.38
689-CL2N3-G	CL2N3-G	TO-92	5	90	5	90	20	External FET	Yes	.44	.36	.34
689-CL25N8-G	CL25N8-G	TO-243AA	5	90	5	90	25	External FET	Yes	.50	.41	.38
689-CL220K4-G	CL220K4-G	TO-252	5	220	5	220	20	External FET	Yes	1.43	1.30	1.16
689-CL220N5-G	CL220N5-G	TO-220	5	220	5	220	20	External FET	Yes	2.13	1.89	1.45
Linear Fixed Constant Current LED Driver ICs												
689-CL6K4-G	CL6K4-G	TO-252	6.5	90	4	90	100	No	Yes	1.52	1.26	1.17
689-CL6N5-G	CL6N5-G	TO-220	6.5	90	4	90	100	No	Yes	1.62	1.34	1.24
689-CL520K4-G	CL520K4-G	TO-252	4.75	90	1	90	20	-	Yes	.86	.71	-
689-CL525K4-G	CL525K4-G	TO-252	4.75	90	1	90	25	-	Yes	.86	.71	-
689-CL75G-G	CL75G-G	SOIC-8	6.5	90	4	90	100	PWM	Yes	1.82	1.52	1.40
Three Channel Linear LED Driver												
689-CL320SG-G	CL320SG-G	SOIC-8	6.5	90	4	90	20	PWM	Yes	1.38	1.24	1.10
689-CL325SG-G	CL325SG-G	SOIC-8	6.5	90	4	90	25	PWM	Yes	1.40	1.26	1.12
689-CL330SG-G	CL330SG-G	SOIC-8	6.5	90	4	90	30	PWM	Yes	1.42	1.28	1.14

DEMO BOARDS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Supertex Part No.	Description	Price Each
689-AT9919DB1	AT9919DB1	Demo Board for AT9919 Series Automotive LED Drivers	130.00
689-HV9967BDB1	HV9967BDB1	Demo Board for HV9967B Series General Purpose LED Drivers	125.00
689-HV9861ADB1	HV9861ADB1	Demo Board for HV9861A Series General Purpose LED Drivers	130.00