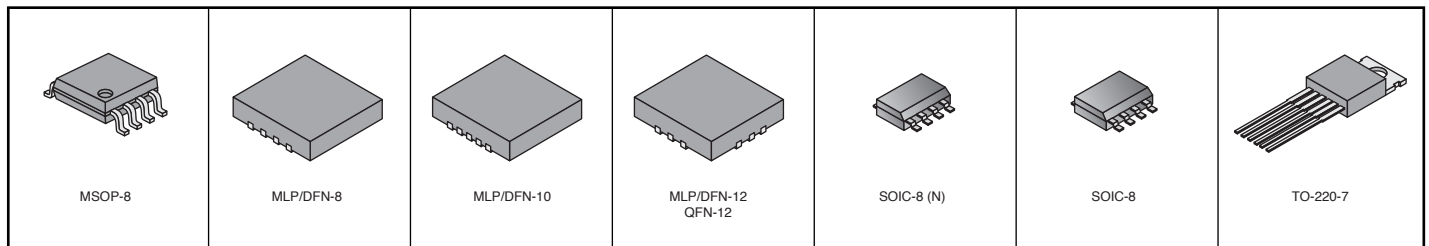


SUPERTEX Drivers and Demo Boards



SUPERTEX LED DRIVER IC DEMO BOARDS

MOUSER STOCK NO.		Description	Price Each
Mfr.	Mfr. Part No.		
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 volt., hi brightness LED driver demo board. 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



SUPERTEX EL BACKLIGHTING DRIVER INTEGRATED CIRCUITS AND DEMO BOARDS

◆ Surface Mount Device

Applications:

- Pagers - HV823, HV826, HV830, HV850
- Portable Instrumentation - HV809, HV823, HV830, HV835, HV843, HV845, HV850, HV857L
- Global Positioning Systems (GPS) units - HV823, HV830, HV833, HV857, HV860
- LCD backlighting - HV833, HV835, HV843, HV845, HV857, HV857L
- Mobile cellular phones - HV823, HV826, HV830, HV835, HV843, HV845, HV850, HV857, HV857L, HV860
- PDAs - HV809, HV823, HV830, HV833, HV857, HV860
- Wireless handheld - HV835, HV843, HV845, HV857, HV857L, HV860
- Portable Transceivers - HV826, HV833, HV850
- Remote Control Units - HV826, HV833
- Calculators - HV826, HV833
- Electronic personal organizers - HV809, HV830
- Display Signs - HV809
- Dual segment lamps - HV835, HV843, HV845
- MP3 players - HV850
- Watches - HV850

HV809 Features

Input voltage up to 200V DC, 400V peak-to-peak output voltage, output load up to 350nF (100 in2 for 3.5nF/in2 lamp), adjustable output lamp frequency, adjustable On/Off pulsing frequency

HV823 Features

180V peak-to-peak output voltage, large output load capability, adjustable output lamp frequency, adjustable converter frequency, enable/disable function, low current draw under no load condition.

HV826 Features

1.8V to 3.5V operating supply voltage, adjustable output frequency, adjustable switch frequency, output voltage regulation, enable/disable function

HV830 Features

2.0V to 9.5V operating supply voltage, 200V peak-to-peak typical output voltage, large output load capability, permits the use of high-resistance elastomeric lamp connectors, adjustable output lamp frequency, adjustable converter frequency, enable/disable function, low current draw under no load condition, very low standby current

HV833 Features

1.8V to 6.5V operating supply voltage, separately adjustable lamp and converter frequency, <100nA shutdown current, output voltage regulation, enable/disable function, output timing for high efficiency

HV835 Features

Low audible noise, independent input control for lamp selection, 160V peak-to-peak output voltage, split supply capability, output timing, low shutdown current, wide input voltage range, output voltage regulation, no SCR output

HV843/HV845 Features

Low audible noise, independent input control for lamp selection, 180V peak-to-peak output voltage, split supply capability, output timing, low shutdown current, wide input voltage range, output voltage regulation, no SCR output

HV850 Features

Designed to drive EL lamps of up to 2.0in2, with capacitive values up to 4.5nF, no external components needed when using an external EL clock frequency, low noise and enable function

HV857/HV857L Features

Audible noise reduction, lamp aging compensation, wide input voltage range, 190V peak-to-peak output voltage, single cell lithium ion compatible, 150nA shutdown current, separately adjustable lamp and converter frequencies, output voltage regulation, split supply regulation

HV860 Features

Adjustable output regulation for dimming, 220V peak-to-peak output voltage, single cell lithium ion compatible, 150nA shutdown current, separately adjustable lamp for converter frequencies, split supply capability selection, 160V peak-to-peak output voltage, split supply capability, output timing, low shutdown current, wide input voltage range, output voltage regulation, no SCR output



RoHS Compliant

MOUSER STOCK NO.		Package	Input Voltage Range		Nominal Output Volt. Vcs (V)	High Volt. Supply Curr. Iin (Typ) (mA)	Max. Switch Resistance Rds(ON) Max (Ω)	Output Reg.	Driver	Maximum Lamp Size Per Driver (in ²)	Price Each			Demo Boards	Supply Voltage (V)	Price Each
Mfr.	Mfr. Part No.		Low (V)	High (V)							1	100	500			
◆	689-HV826MG-G	MSOP-8	1.8	3.5	±80	35	7	Yes	Single	4	1.43	1.19	1.10	689-HV826DB1	1.8V - 3.5VDC	50.00
◆	689-HV826LG-G	SOIC-8 (N)	1.8	3.5	±80	35	6	Yes	Single	4	1.37	1.14	1.05	689-HV826DB1	1.8V - 3.5VDC	50.00
◆	689-HV857MG-G	MSOP-8	1.8	5.0	±95	20	6	Yes	Single	5	1.25	1.04	.96	689-HV857DB1	1.8V - 5VDC	50.00
◆	689-HV857LK7-G	MLP/DFN-8	1.8	5.0	±95	25	6	Yes	Single	5	1.24	1.03	.95	---	---	---
◆	689-HV857LMG-G	MSOP-8	1.8	5.0	±95	25	6	Yes	Single	5	1.20	1.00	.92	---	---	---
◆	689-HV833MG-G	MSOP-8	1.8	6.5	±90	56	4	Yes	Single	12	1.69	1.41	1.30	689-HV833DB1	1.8V - 6.5VDC	50.00
◆	689-HV835K7-G	MLP/DFN-10	2.0	5.8	±80	16	10	Yes	Dual	3.5	1.46	1.22	1.12	---	---	---
◆	689-HV843K7-G	MLP/DFN-10	2.0	5.8	±90	20	10	Yes	Dual	3.5	1.46	1.22	1.12	---	---	---
◆	689-HV845K7-G	MLP/DFN-12	2.0	5.8	±90	20	10	Yes	Dual	3.5	1.52	1.26	1.17	---	---	---
◆	689-HV823LG-G	SOIC-8 (N)	2.0	9.5	±90	25	6	Yes	Single	23	2.00	1.66	1.53	689-HV823DB1	3.0 - 3.3VDC	50.00
◆	689-HV830LG-G	SOIC-8 (N)	2.0	9.5	±100	35	4	Yes	Single	25	2.15	1.79	1.65	689-HV830DB1	2.0 - 9.5VDC	50.00
◆	689-HV860K7-G	QFN-12	2.5	4.5	±110	16	6	Yes	Single	5	1.37	1.14	1.05	---	---	---
◆	689-HV850MG-G	MSOP-8	3.0	4.2	±140	---	N/A	Yes	Single	2	1.56	1.30	1.20	689-HV850DB1	3.0V - 4.2VDC	50.00
◆	689-HV809LG-G	SOIC-8 (N)	50	200	±50 - ±200	9-70	N/A	N/A	Single	100	2.34	1.94	1.80	689-HV809DB2	6 VDC	80.00
◆	689-HV809SG-G	SOIC-8	50	200	±50 - ±200	9-70	N/A	N/A	Single	100	2.79	2.32	2.15	---	---	---
◆	689-HV809K2-G	TO-220-7	50	200	±50 - ±200	9-70	N/A	N/A	Single	100	3.71	3.08	2.85	689-HV809DB1	120 VAC	60.00



Analog ICs

Supertex

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