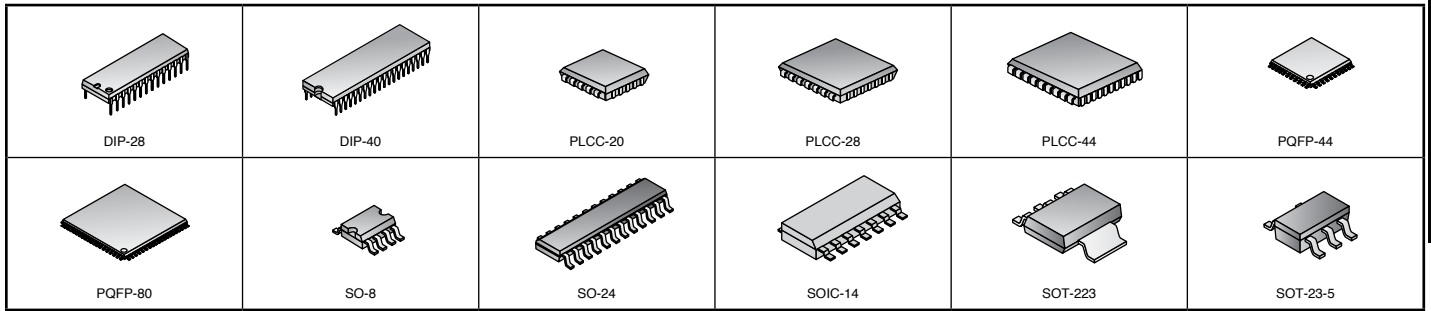


# SUPERTEX High Voltage Driver/Interface Integrated Circuits **Supertex**

Products may be RoHS compliant.  
Check mouser.com for RoHS status.



Analog ICs

Supertex

## SINK ONLY OUTPUTS – OPEN DRAIN N-CHANNEL

◆ Surface Mount Device



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Supertex Part No.	Package	Output Channel	Output Voltage (V)	Output Current per Channel (mA)	Direction	Logic Configuration	Price Each			
								1	100	500	1000
◆ 689-HV5622PG-G	HV5622PG-G	PQFP-44	32	+220	100	CW	Serial to parallel converter with latches, polarity and blanking Serial to parallel converter with output enable and strobe	7.51	6.24	5.77	5.53
◆ 689-HV5222PG-G	HV5222PG-G	PQFP-44	32	+225	100	CW		6.67	5.55	5.12	4.91

## SOURCE/SINK OUTPUTS - PUSH-PULL

◆ Surface Mount Device



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Supertex Part No.	Package	Output Channel	Output Voltage (V)	Output Current per Channel (mA)	Direction	Logic Configuration	Output Structure	Clock Rate (MHz)	Bits	Outputs On	Price Each			
												1	100	500	1000
◆ 689-HV508LG-G	HV508LG-G	SO-8	1	+45 +6	-400HV +10LV +400 sink	---	H-bridge output with two output	Push-Pull	---	---	---	4.24	3.52	3.26	3.12
◆ 689-HV513K7-G	HV513K7-G	QFN-32	8	+60	-20	-	Serial to Parallel Logic Converters HVCMS	Push-Pull	8	8	All	4.90	3.80	3.68	3.31
◆ 689-HV513WG-G	HV513WG-G	SO-24	8	+250	±20	CW	Serial to parallel converter with latches, polarity, blanking, Hi-Z and short circuit detect	Push-Pull	8	1	All	3.80	3.16	2.92	2.80
◆ 689-HV6810PJ-G	HV6810PJ-G	PLCC-20	10	+80	-25/+100uA	CW	Serial to parallel converter with latches and blanking	Push-Pull	5	1	All	2.09	1.74	1.61	1.54
◆ 689-HV5812P-G	HV5812P	DIP-28	20	+60	-25 +2	CW	Serial to parallel converter with latches, blanking and strobe	Push-Pull	5	16	All	2.77	2.31	2.13	2.04
◆ 689-HV5812PJ-G	HV5812PJ-G	PLCC-28	20	+60	-25 +2	CW	Serial to parallel converter with latches, blanking and strobe	Push-Pull	5	16	All	2.89	2.40	2.22	2.13
◆ 689-HV66PG-G	HV66PG-G	PQFP-44	32	+60	±5	B	Serial to parallel converter with latches, polarity, blanking and backplane	Push-Pull	5	1	All	3.71	3.08	2.85	2.73
◆ 689-HV518P-G	HV518P-G	DIP-40	32	+80	-25 +1	CW	Serial to parallel converter with latches, enable and strobe	Push-Pull	6	1	All	7.21	5.99	5.59	5.12
◆ 689-HV518PJ-G	HV518PJ-G	PLCC-44	32	+80	-25 +1	CW	Serial to parallel converter with latches, enable and strobe	Push-Pull	6	1	All	6.44	5.36	4.95	4.75
◆ 689-HV9308PJ-G	HV9308PJ-G	PLCC-44	32	+80	-20/+5	CW	Serial to parallel converter with latches and output enable	Push-Pull	8	1	All	5.07	4.22	3.90	3.74
◆ 689-HV9708PJ-G	HV9708PJ-G	PLCC-44	32	+80	-20/+5	CW	Serial to parallel converter with latches, polarity and blanking, VDD= 5V	Push-Pull	8	1	All	5.07	4.22	3.90	3.74
◆ 689-HV57708PG-G	HV57708PG-G	PQFP-80	64	+80	-15 +12	B	EL driver with latches, blanking and polarity with four 16-bit shift registers	Push-Pull	6	4	All	10.26	8.53	7.88	7.56
◆ 689-HV57908PG-G	HV57908PG-G	PQFP-80	64	+80	-15 +12	B	EL or plasma driver w/latches, blanking and polarity, single shift register	Push-Pull	8	1	All	11.29	9.39	8.67	8.32
◆ 689-HV507PG-G	HV507PG-G	PQFP-80	64	+300	±1.0	B	Serial to parallel converter with latches, polarity and blanking	Push-Pull	8	1	All	17.04	14.17	13.10	12.56

## SUPERTEX DRIVERS

Supertex 24V/48V Fan Driver/Controller

◆ Surface Mount Device



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Supertex Part No.	Package	Input Voltage Range	Supply Current Max (mA)	Oscillator Frequency Max (Hz)	High Voltage Supply		Operating Temperature (°C)	Rise Time Max (ns)	Fall Time Max (ns)	Price Each			
						Min (V)	Max (V)				1	100	500	1000
◆ 689-HV7100NG-G	HV7100NG-G	SOIC-14	+16 to +90V	4	100k	16	75	-40 to +85 -55 to 125	100 75	100 75	2.76	2.29	2.12	2.03
◆ 689-HV9123PJ-G	HV9123PJ-G	PLCC-20	+10 to 450	1.3	3	3.92	4.08				2.81	2.34	2.16	2.07

Supertex High Side Current Monitor

◆ Surface Mount Device



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Supertex Part No.	Package	Supply Voltage Range	Output Voltage @ Max V <sub>SENSE</sub>			Output Pin Res. Typ (kΩ)	LOAD Max (mA)	Output Rise Time (10%-90%) Typ (µs)	Output Fall Time (90%-10%) Typ (µs)	Price Each			
				Min (mV)	Max (mV)	V <sub>SENSE</sub>					1	100	500	1000
◆ 689-HV7800K1-G	HV7800K1-G	SOT-23-5	+8.0 to 450V	490	510	500mV	3.3	±10	0.7	0.7	.76	.63	.58	.56
◆ 689-HV7801K1-G	HV7801K1-G	SOT-23	+8.0 to 450V	2395	2605	500mV	16.5	±10	0.7	0.7	.76	.64	.58	.56

## SUPERTEX HOTSWAP CONTROLLER/IN-RUSH CURRENT LIMITER/CIRCUIT BREAKER INTEGRATED CIRCUITS

High Voltage, Negative Rail Break

The HV1xx hotswap product family is 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 HV1xxx, 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. An open drain Power Good (PWRGD) signal is generated once all conditions have been satisfied.

HV100/101 Features:

- Top 100 products EDN magazine
- Industry first 3 pin hotswap controller
- MOSFET Auto adapting circuit
- Safe Hotswapping on backplane power supply rail
- Patent pending short circuit protection
- For Evaluation/Design Shortcut see Demo Boards

◆ Surface Mount Device



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Supertex Part No.	Package	Input Voltage V <sub>IN</sub>		Input Current I <sub>IN</sub>	UV/OV Protection	Circuit Breaker	Sense Resistor	Auto Retry	Power Good Signal	No. of Channels	Price Each			
			Min. (±V)	Max. (±V)								1	100	500	1000
◆ 689-HV1100K5-G	HV1100K5-G	SOT-223	38/34	72	1	UV	Until C-Load Fully Charged	---	Yes	---	1	1.48	1.23	1.14	1.09