

Product Summary Sheet

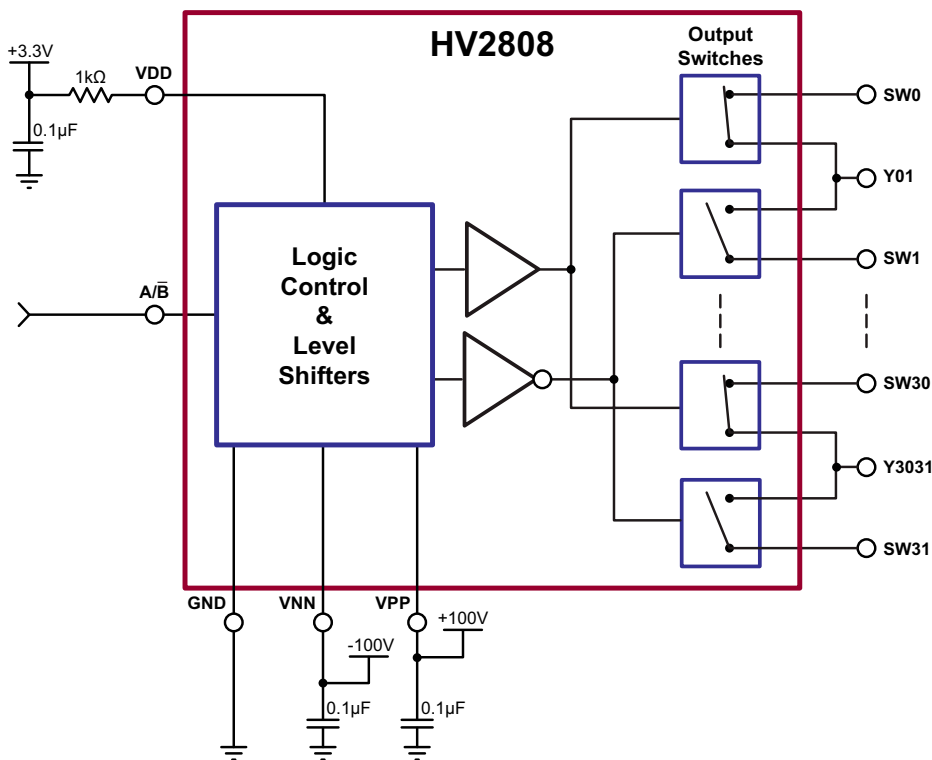
Low Harmonic Distortion, 32-Channel, High Voltage Analog Switch IC

Applications:

- ▶ Electromechanical relay replacement in medical ultrasound probes



56-Lead QFN (K6)



Block Diagram

Product Overview:

The Supertex HV2808 is a low harmonic distortion, 32-channel, high voltage analog switch integrated circuit (IC), designed for use in medical ultrasound imaging systems as a probe selection relay replacement. It serves as a 16PDT (16-pole, double throw) high voltage analog switch array. HV2808 is a very fast transducer multiplexer that consumes minimal power and emits no audible noise.

Using HVCMOS technology, this device combines high voltage bilateral DMOS switches and low power CMOS logic to provide efficient control of high voltage analog signals.

The device is suitable for various combinations of high voltage supplies, e.g., V_{PP}/V_{NN} : +40V/-160V, +100V/-100V, and +160V/-40V.

The HV2808 comes in an 8x8x1.0mm, 56-Lead QFN package. Compared to an electromechanical relay, it not only saves considerable PCB area, but also saves on the PCB assembled height.

Features:	Benefits:
2:1 Multiplexer/Demultiplexer	Optimal performance for notebook ultrasound imaging systems
Low quiescent current, 10μA	Low heat dissipation, increased reliability
Low parasitic capacitance	Minimal signal loss, increased system dynamic range
DC to 50MHz frequency flat insertion loss	Wide bandwidth response for any type of probe
Available in 56-Lead QFN package	Saves board space compared to an electromechanical relay



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Supertex inc.

Low Harmonic Distortion, 32-Channel, High Voltage Analog Switch IC

Ordering Information / Availability

Part Number	Package Option	Samples	Lead Time
HV2808K6-G	56-Lead QFN (Green)	Now	6-8 Weeks ARO

-G indicates the part is RoHS compliant (Green).



Product Contact

For any questions regarding the HV2808, please contact your local area Supertex sales office, or contact the main office in the US at:

Telephone: 800-222-8888
Fax: 408-222-4895
E-Mail: mktg@supertex.com
Website: www.supertex.com