

**Product  
Summary  
Sheet**

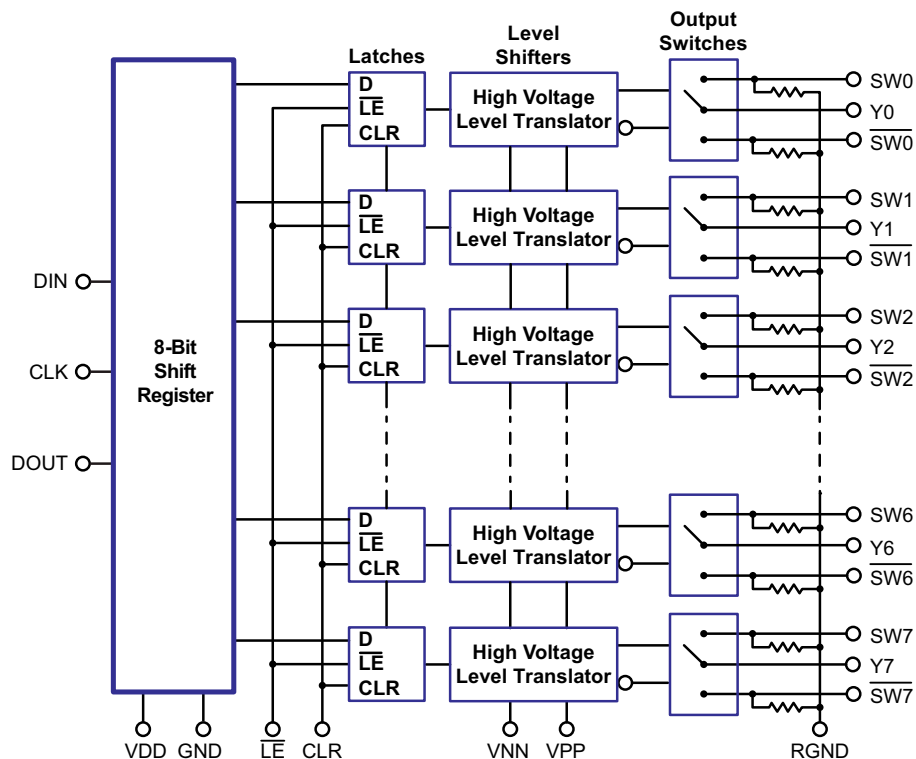
**16-Channel, High Voltage Analog Switch  
with Bleed Resistors**

**Applications:**

- ▶ Diagnostic medical ultrasound imaging
- ▶ NDT metal flaw detection
- ▶ Piezoelectric transducer drivers
- ▶ Optical MEMS modules



48-Lead LQFP (FG)



**Typical Application Circuit**

**Product Overview:**

The Supertex HV2733 is a low charge injection, 16-channel, low harmonic distortion, high voltage analog switch integrated circuit (IC) intended for use in applications requiring high voltage switching, controlled by low voltage control signals, such as medical ultrasound imaging, piezoelectric transducer drivers, and printers. The bleed resistors eliminate voltage built up on capacitive loads such as piezoelectric transducers.

The outputs are configured as single-pole double-throw analog switches. Data are shifted into a 8-bit shift register using an external clock. The  $\overline{LE}$  latches the shift register data into the individual switch latches. A logic high connects a switch common YX to SWX. A logic low connects YX to  $\overline{SWX}$ . A logic high in CLR resets all switches to  $\overline{SWX}$  simultaneously.

To reduce any possible clock feed-through noise, the latch enable bar ( $\overline{LE}$ ) should be left high until all bits are clocked in. Data are clocked in during the rising edge of the clock. 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.

Features:	Benefits:
Very low quiescent power dissipation (-10uA)	Low heat dissipation, increased reliability
Low parasitic capacitance	Reduces return signal attenuation
3.3 or 5.0V CMOS input logic level	Efficient control of high voltage analog signals
Flexible voltage supply ranges	Permits operation at various voltages for optimal performance in a variety of applications
Integrated bleed resistors on outputs	Reduces erroneous signals



# 16-Channel, High Voltage Analog Switch with Bleed Resistors

## Ordering Information / Availability

Part Number	Package Option	Samples	Lead Time
HV2733FG-G	48-Lead LQFP (Green)	Now	6-8 Weeks ARO

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



## Product Contact

For any questions regarding the HV2733, please contact your local area Supertex sales office, or contact the main office in the US at:

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***Supertex inc.***

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