Thirty-Two Channel Analog Switches

Supertex, a recognized leader in high voltage analog and mixed signal integrated circuits (ICs), today introduced two new high voltage, thirty-two channel analog switches—HV2801 and HV2901. Both ICs offer robust latch up protection and quiescent current of less than 10uA, producing optimal efficiency in attenuation and controlling high voltage analog switching with a low voltage signal. The ICs excel in applications such as diagnostic medical ultrasound imaging, non-destructive metal flaw detection, inkjet printer heads and piezoelectric transducer drivers.
HV2801 and HV2901 feature 18 ohm on-resistance to minimize return signal attenuation, serial shift registers that reduce I/O connections in space-constrained applications, and up to 200V operating voltage for deeper body tissue imaging capability. Both ICs may be utilized with multiple combinations of high voltage supplies to accommodate different operating modes in diagnostic medical ultrasound imaging, such as +40V/-160V, +100V/-100V, +160V/-40V, (Vpp/Vnn). The HV2901 also features integrated bleed resistors to discharge residual DC voltages and reduce erroneous signals.

“The HV2801 and HV2901 deliver very high channel density for space-constrained medical ultrasound applications,” states Stephen Lin, Vice President of Marketing for Supertex. “These ICs leverage Supertex’s proven expertise in high voltage analog signal control with our proprietary HVCMOS technology to produce very efficient and robust analog switches.”

HV2801 and HV2901 are available in 64-lead QFN packages (HV2801K6-G and HV2901K6-G). The parts are RoHS compliant. Samples are available from stock. Lead-time for production quantities is 4-6 weeks ARO. Pricing is US$19.34 each for both HV2801K6-G and HV2901K6-G, in 1K quantities.

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