Four Channel Pulse Generator Features Fast Return-to-Zero Damping FETS

Supertex, a recognized leader in high voltage analog and mixed signal integrated circuits (ICs), today introduced the HV7331, a four channel, monolithic, high voltage, high speed pulse generator IC with integrated fast return-to-zero (RTZ) FETs. The high voltage, high speed IC is designed for use in portable medical diagnostic ultrasound devices, but can also be used in non-destructive testing (NDT) applications.
The IC brings together controller logic interface circuitry, level translators, MOSFET gate drive buffers, and high voltage and high current P- and N-channel MOSFETs as the output stage for each channel. HV7331 features matched delay times of +/-2.5ns, guaranteed output of over 2.0A for each channel with a +/-70V pulse swing, and up to 20 MHz operating frequency. Integrated regulators for its gate drivers makes PCB layout easier by eliminating the need for two floating voltage supplies.

“With four high speed output channels in a compact, 9x9mm QFN package, HV7331 is optimized for space-constrained, portable, medical ultrasound imaging applications as well as non-destructive test imaging applications,” states Stephen Lin, Vice President of Marketing for Supertex. “The high voltage MOSFET output stages for each of HV7331’s channels can deliver pulses up to +/-70V with a typical current capability of +/-2.0A.”

Supertex, Inc.
www.supertex.com [1]

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