

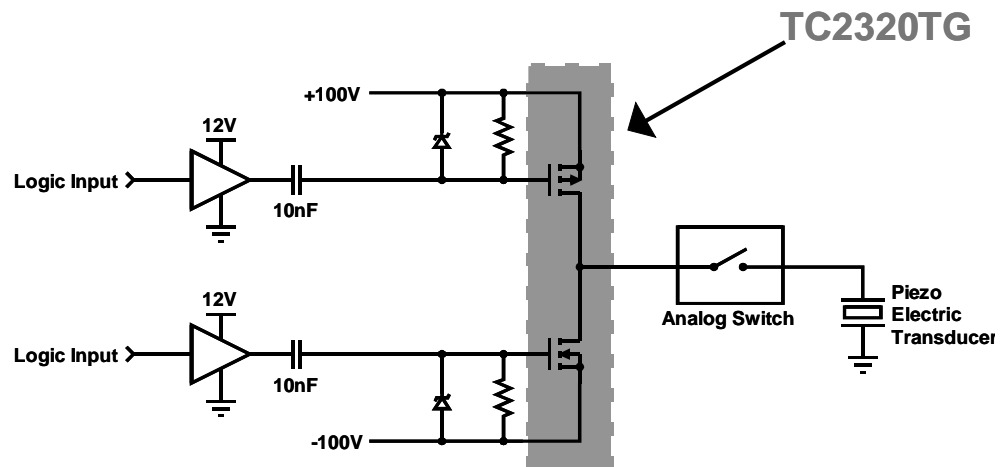
Product Summary Sheet

TC2320TG

N- and P-Channel Enhancement-Mode Dual MOSFET

Applications

- Medical ultrasound transmitters
- High voltage pulsers
- Amplifiers
- Buffers
- Piezoelectric transducer drivers
- General purpose line drivers
- Logic level interfaces



Typical Application Circuit for Pulser

Product Overview:

The TC2320TG is a complementary high-speed, high voltage N- and P-channel MOSFET in a single SO-8 package. The TC2320TG offers 200V breakdown voltage, 2.0A output peak current, and low input capacitance. The 2.0A output current capability will minimize rise and fall times. The low input capacitance will minimize propagation delay times and also rise and fall times. The MOSFETs are electrically isolated from each other by a custom lead frame that encapsulates two independent dice to minimize crosstalk. These combined features are ideally suited for high-speed high voltage pulsers. Typical applications would be for medical ultrasound transmitters and class D amplifiers.

Features:

200V Drain-to-Source Breakdown Voltage

2.0A $I_{d(on)}$

Low Input Capacitance

SO-8 package

Benefits:

Common voltage range for medical ultrasound

Enough current to drive transducers with rise and fall times of 20ns for proper imaging

Eases gate drive requirement to meet desired output speed

Simplifies PCB assembly

TC2320TG

N- and P-Channel Enhancement-Mode Dual MOSFET

Typical Performance

<u>Device</u>	<u>BV_{DSS} / BV_{DGS}</u>		<u>R_{DS(ON)}</u>	
	<u>N-Channel</u>	<u>P-Channel</u>	<u>N-Channel</u>	<u>P-Channel</u>
TC2320TG	+200V	-200V	7.0 Ω	12 Ω

Ordering Information / Availability

<u>Part Number</u>	<u>Datasheet</u>	<u>Samples</u>	<u>Lead Time</u>
TC2320TG	TC2320 Now	TC2320TG Now	4 - 5 weeks ARO

Product Contact

If you have any questions regarding the TC2320TG or would like to receive samples, contact Supertex Applications at:

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Supertex Sales:

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