

New Product Announcement

Robust Diodes Incorporated New ZXGD3009 Gate Drivers Available from Mouser

January 7, 2015 – [Mouser Electronics](http://www.mouser.com), Inc. is now stocking the new [ZXGD3009 High Speed Non-Inverting Gate Drivers](#) from [Diodes Incorporated](#). These rugged gate drivers boast a near-zero quiescent supply current and can transfer up to 1 Amp peak source/sink current into the gate for effective charging and discharging. They are designed to withstand harsh environments, ESD spikes, and latch-up conditions.

The new [Diodes Incorporated ZXGD3009 High Speed Non-Inverting Gate Drivers](#), available from Mouser Electronics, are robust gate drivers designed for the rapid switching of MOSFETs under [harsh conditions](#). These gate drivers can withstand electrostatic discharge shocks of up to 4,000V (HBM) without harming the device. A wide supply voltage allows for up to 40V drive voltage. These drivers can typically drive 500mA into the low gate impedance with just a 10mA input, allowing direct drive from an output pin from most microcontrollers. This reduces [bill of materials](#) cost by eliminating the need for an intermediate buffer.

These new gate drivers require a minimum of external components, with a pinout configuration optimized for simplifying printed circuit board layout, along with the added advantage of reducing parasitic trace inductances. The turn-on and turn-off behavior of the controlled MOSFET, including ramp-up and ramp-down times, can be modified to suit individual applications. This allows fine-tuning the developer's circuit so that electromagnetic interference and cross-conduction problems can be reduced or eliminated. The emitter-follower is designed to tolerate, and be immune to, potential latch-up or shoot-through situations.

The datasheet contains a useful application diagram. Target applications for the ZXGD3009 Gate Driver include [power supplies](#), DC to DC converters, [audio amplifier](#) output stages, and [motor control](#).

To learn more, visit: <http://www.mouser.com/new/Diodes-Inc/diodes-inc-zxgd3009-drivers/>.

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About Mouser Electronics

Mouser Electronics, a subsidiary of TTI, Inc., is part of Warren Buffett's Berkshire Hathaway family of companies. Mouser is an award-winning, authorized semiconductor and electronic component distributor, focused on the rapid introduction of new products and technologies to electronic design engineers and buyers. Mouser.com features more than 4 million products online from more than 500 manufacturers. Mouser publishes multiple catalogs per year providing designers with up-to-date data on the components now available for the next generation of electronic devices. Mouser ships globally to over 400,000 customers in 170 countries from its 492,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit <http://www.mouser.com>.

About Diodes Incorporated

Diodes Incorporated is a leading global supplier of high-quality application specific standard products within the broad discrete and analog semiconductor markets. Diodes products include diodes, rectifiers, transistors, MOSFETs, protection devices, function-specific arrays, amplifiers and comparators, Hall-effect sensors and temperature sensors, and power management devices including LED drivers, DC-DC switching regulators, linear voltage regulators and voltage reference, as well as special function devices including USB power switch, load switch, voltage supervisor and motor controllers.

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