



Product news

Diodes Incorporated Improves Power Density with Integrated High-Voltage Regulator Transistors

Plano, Texas – June 13, 2013 – Diodes Incorporated (Nasdaq: DIOD), a leading global manufacturer and supplier of high-quality application specific standard products within the broad discrete, logic and analog semiconductor markets, today announced the monolithic integration of a transistor, Zener diode and resistor into a standard SOT89 package. With this integration, the ZXTR200x family of high-voltage regulators from Diodes Incorporated boosts power-circuit densities through reductions in component count and footprint. Principle applications for the devices are in networking, telecom and Power-over-Ethernet (PoE) where they are ideal voltage supply regulators for primary-side controllers in 48V DC-DC PSUs.

The ZXTR2005Z, ZXTR2008Z and ZXTR2012Z regulator transistors provide designers with high-voltage regulation by taking a nominal 48V input and generating fixed output voltages of 5V, 8V and 12V, where standard linear regulators cannot be used.

The line and load regulation capabilities within the devices safeguard continuous operation by preventing latch-up from transient voltage drops. Additionally, the unique structure allows the input to successfully tolerate spurious voltages up to a maximum of 100V, creating a safety margin in the event of transient over-voltage conditions. For further information, visit the Company's website at www.diodes.com.

About Diodes Incorporated

Diodes Incorporated (Nasdaq: DIOD), a Standard and Poor's SmallCap 600 and Russell 3000 Index company, is a leading global manufacturer and supplier of high-quality application specific standard products within the broad discrete, logic and analog semiconductor markets. Diodes serves the consumer electronics, computing, communications, industrial, and automotive markets. Diodes' products include diodes, rectifiers, transistors, MOSFETs, protection devices, functional specific arrays, single gate logic, amplifiers and comparators, Hall-effect and temperature sensors; power management devices, including LED drivers, AC-DC converters and controllers, DC-DC switching and linear voltage regulators, and voltage references along with special function devices, such as USB power switches, load switches, voltage supervisors, and motor controllers. Diodes' corporate headquarters, logistics center, and Americas' sales office are located in Plano, Texas. Design, marketing, and engineering centers are located in Plano; San Jose, California; Taipei, Taiwan; Manchester, England; and Neuhaus, Germany. Diodes' wafer fabrication facilities are located in Kansas City, Missouri and Manchester, with two more located in Shanghai, China. In addition, two assembly-test facilities are located in Shanghai; two are located in Chengdu, China, with one in Neuhaus and one in Taipei. Additional engineering, sales, warehouse, and logistics offices are located in Fort Worth, Texas; Taipei; Hong Kong; Manchester; Shanghai; Shenzhen, China; Seongnam-si, South Korea; Suwon, South Korea; Tokyo, Japan; and Munich, Germany, with support offices throughout the world. For further information, including SEC filings, visit Diodes' website at <http://www.diodes.com>.

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