



## **Regulator Transistor from Diodes Incorporated Raises Power Density in 48V Systems**

**Plano, Texas – March 20, 2014** – 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 introduced new space-saving package options for its ZXTR2000 series of high-voltage linear regulator transistors designed for 48V circuits in networking, telecom and power-over-ethernet (POE) equipment.

By monolithically integrating several discrete components into the ultra-low profile PowerDI<sup>®</sup>5 and the higher power dissipation TO252 (DPAK) packaging, the regulator transistors offer designers the opportunity to increase power density in 48V DC primary-side and fan control applications.

Able to operate where standard linear regulators cannot, the high-voltage ZXTR2005K, ZXTR2008K and ZXTR2012K (TO252) and the ZXTR2005P5, ZXTR2008P5 and ZXTR2012P5 (PowerDI5) produce fixed voltages of 5V, 8V and 12V, respectively, from nominal 48V inputs.

Device inputs are actually tolerant up to a maximum of 100V, meaning all regulator transistors offer plenty of headroom in the event of transient over-voltage conditions. High-performance line and load regulation also ensures transient voltage drops do not result in latch-up, enabling continuous supply operation. For further information, visit the Company's website at [www.diodes.com](http://www.diodes.com).

---

*PowerDI is a registered trademark of Diodes Incorporated.*

**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 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 four manufacturing facilities located in Shanghai, China, and two joint venture facilities located in Chengdu, China, as well as manufacturing facilities located in Neuhaus and 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>.

###

**Company Contact:**

Diodes Incorporated  
Francis Tang  
VP, Worldwide Discrete Products  
P: 972-987-3900  
E: [pressinquiries@diodes.com](mailto:pressinquiries@diodes.com)

**Investor Relations Contact:**

Shelton Group  
Leanne K. Sievers  
EVP, Investor Relations  
P: 949-224-3874  
E: [lsievers@sheltongroup.com](mailto:lsievers@sheltongroup.com)