



## **Integrated High-Voltage Regulator from Diodes Incorporated Boosts Power Density**

**Plano, Texas – February 13, 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 a pair of high-voltage linear regulators suitable for 48V DC power systems in telecom, networking and Power-over-Ethernet (PoE) equipment. Integrating several components into TO252-4 and PowerDI5060-8 packages, the ZXTR1005K4 and ZXTR1005PD8 help minimize circuit footprint while providing a fixed 5V ( $\pm 2\%$ ) output and a high drive capability of 50mA.

For high-voltage regulation tasks, where industry-standard linear regulators can't be used, the ZXTR1005 provides a cost-effective alternative that offers a significant improvement in supply reliability. The regulated 5V output enables microcontrollers to be powered from 48V telecom rails, while the devices' 100V tolerant inputs cope with any transient conditions.

The ZXTR1005's high-performance line and load regulation capability also ensures transient voltage drops will not result in latch-up, thereby safeguarding continuous operation of the voltage supply. To simplify regulator control and aid diagnostics, the device includes an active-high enable pin allowing the output to be toggled on and off. For further information, visit the Company's website at [www.diodes.com](http://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 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>.

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**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)