



For immediate release

Automotive-Grade Regulators from Diodes Incorporated Deliver 5V, 8V, or 12V Outputs and Tolerate 60V Battery Transients

Plano, Texas – November 30, 2017 – Diodes Incorporated (Nasdaq: DIOD), a leading global manufacturer and supplier of high-quality application specific standard products within the broad discrete, logic, analog and mixed-signal semiconductor markets, today announced the ZXTR2105FQ, ZXTR2108FQ and ZXTR2112FQ regulator transistors. These devices are qualified to AEC-Q101 standards for high reliability and are PPAP*-capable. Designed to deliver 5V, 8V, or 12V regulated outputs from nominal battery supplies of 12V or 24V, these regulator transistors are well-suited for powering vehicle electronics. This product family can tolerate battery voltage spikes up to 60V, making possible applications that cannot use standard linear regulators.

By monolithically integrating a transistor, Zener diode, and resistor into a SOT23 package, these regulator transistors reduce component count, which minimizes PCB area and increases system reliability by reducing PCB interconnect. The ZXTR2105FQ is targeted at applications that require a 5V $\pm 5\%$ regulated supply from a 12V battery, e.g., for a stable MCU supply within the required 4.7V to 5.3V supply range. The ZXTR2112FQ is aimed at cars and trucks that have 24V batteries but need a 12V $\pm 10\%$ supply for applications such as the VCC supply for gate driver ICs. All these regulator transistors deliver an output current up to 15mA.

The 60V maximum input rating of all these regulators ensures sufficient headroom in the event of transient over-voltage conditions, while their line and load regulation safeguards continuous operation by ensuring transient voltage drops cannot cause latch-up, further contributing to system reliability.

The automotive-qualified ZXTR21xxFQ devices provide a highly reliable and compact solution to common voltage regulator requirements in vehicle electronics and are priced at \$0.15 in 10k quantities. Further information is available at www.diodes.com

* PPAP = product part approval process

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

Investor Relations Contact:

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