



*For immediate release*

## **Diodes Incorporated Prolongs Battery Life in Low-Voltage Portable Devices with Low-Power Single Comparator**

**Plano, Texas – March 25, 2015** – 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 the AZV3001. This new generation single-channel comparator has been specifically developed for use in battery-powered equipment that needs to operate at low voltage. The single-channel consumes only 6 $\mu$ A and provides guaranteed operation from 1.6V up to 5.5V, making it well-suited for use in systems with nominal supplies of 1.8V, 3.0V or 5.0V, such as mobile phones, tablets and notebook computers, where it delivers superior performance and helps extend battery life.

The comparator features internal hysteresis in order to provide immunity to undesirable small voltage fluctuations, and uses a complementary output stage, comprising P- and N-channel MOSFETS, in order to drive outputs with a full rail-to-rail voltage swing. Miniaturized package options help reduce PCB board space: the AZV3001 is offered in a 6-pin X2-DFN1410-6 package and the dual-channel AZV3002, available later this year, in an 8-pin U-FLGA1616-8 package.

With a low propagation delay of 0.8 $\mu$ s, a low input bias current of 1pA and no risk of phase inversion when the input is overdriven, these comparators offer embedded system design engineers a general-purpose solution to almost all low-voltage portable device requirements. Further information is available 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 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 additional facilities located in Shanghai, China. Diodes has assembly and test facilities located in Shanghai and in Chengdu, China, as well as in Neuhaus and Taipei. Additional engineering, sales, warehouse, and logistics offices are located in Taipei; Hong Kong; Manchester; Shanghai; Shenzhen, China; Seongnam-si, South Korea; and Munich, Germany, with support offices throughout the world. For further information, including SEC filings, visit Diodes' website at [www.diodes.com](http://www.diodes.com).

# # #

**Company Contact:**

Diodes Incorporated  
Julie Holland  
VP, Worldwide Analog 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)