



*For immediate release*

## **Octal Bus Transceiver with Hot Insertion and Bus-Hold Capability adds to Diodes Incorporated's Logic Portfolio**

**Plano, Texas – August 3, 2016** – 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 74LVT245BB. This octal transceiver enables asynchronous communication between data buses. A control pin determines data flow direction, while disabling the tri-state outputs allows the buses to be completely isolated. Once reserved primarily for computer applications, data buses are now commonplace in TVs, set-top boxes, base stations and a myriad of other data communication devices, providing a broad market for transceiver circuits.

The 74LVT245BB adds a partial power-down capability to the normal asynchronous communication between data buses. This disables the outputs and prevents damaging current backflow when the device is powered down. It also withstands hot insertion by maintaining the tri-state output during power up. Schmitt trigger action inputs also include a bus-hold feature so no resistors are required on unused inputs. Combined with a latch-up immunity of better than 500mA, these transceivers enable board designs that can be hot-swapped in applications like computer servers and cell phone base stations without the need to turn equipment off.

Operation of the 74LVT245BB is specified for a supply voltage range of 2.7V to 3.6V and inputs can be driven at 3.3V or 5V, allowing for mixed-logic voltage applications. Outputs can sink 64mA or source 32mA and have leakage current of <math><125\mu\text{A}</math> when forced to 5.5V. With a 2.7ns (typical) propagation time, a drive capability suitable for large bus architectures, and the ability to power down to avoid loading the data bus, the 74LVT245BB delivers gains in power performance ratio, reliability and cost. 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, analog and mixed-signal semiconductor markets. Diodes serves the consumer electronics, computing, communications, industrial, and automotive markets. Diodes' products include diodes, rectifiers, transistors, MOSFETs, protection devices, function-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 and Milpitas, California. Design, marketing, and engineering centers are located in Plano; Milpitas; Taipei, Taiwan; Taoyuan City, Taiwan; Zhubei City, Taiwan; Manchester, England; and Neuhaus, Germany. Diodes' wafer fabrication facilities are located in Kansas City, Missouri and Manchester, with an additional facility located in Shanghai, China. Diodes has assembly and test facilities located in Shanghai, Jinan, Chengdu, and Yangzhou, China, as well as in Hong Kong, 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.

Recent news releases, annual reports and SEC filings are available at the Company's website: <http://www.diodes.com>. Written requests may be sent directly to the Company, or they may be e-mailed to: [diodes-fin@diodes.com](mailto:diodes-fin@diodes.com).

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