



*For immediate release*

## **Bidirectional 8-Channel Level Shifter from Diodes Incorporated Offers Wide Voltage Range and Flexible Output Options**

**Plano, TX – December 18, 2018** – 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 PI4ULS5V108. This device is an 8-channel, high speed, bidirectional level shifter designed for inter-IC communications between devices operating on different voltage supply rails. Targeted applications include PC, servers, networking, telecom, and consumer electronics.

The PI4ULS5V108 supports up to 100 MHz up-translation and greater than 100 MHz down-translation at  $\leq 30\text{pF}$  capacitive load. This allows it to support a wide range of PC or consumer interfaces including GPIO, MDIO, SDIO, UART, SMBus, PMBus, I<sup>2</sup>C, and SPI. It provides voltage level shifting without direction pin control, which minimizes system effort.

This level shifter operates between  $< 0.9\text{V}$  and 5V across eight I/O channels, each of which can be configured with different voltage translation levels for system flexibility. On-resistance is very low, yielding minimal signal distortion, while the wider translation voltage range of the PI4ULS5V108 suits consumer interfaces. Enable and I/O pins are ESD protected (8kV HBM and 1kV CDM).

The 8-bit PI4ULS5V108 is available in the 20-pin TSSOP or 20-pin VQFN 2.5mm x 4.5mm packages. 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, 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 also has timing, connectivity, switching, and signal integrity solutions for high-speed signals. 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 facility is located in 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; Munich, Germany; and Tokyo, Japan, 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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