



*For immediate release*

## **USB On-The-Go and Power Delivery Protection with TVS Array from Diodes Incorporated**

**Plano, Texas – April 06, 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 introduced the D5V0F3B6LP20. Offering transient voltage suppression (TVS) for USB data and power connections, this diode array is one of the most rugged protection devices in its class. It is aimed at consumer and mobile communications products with a USB interface, especially those employing the new USB PD (Power Delivery) protocol that supports quick charging and higher power connections.

The D5V0F3B6LP20 integrates three bi-directional I/O channels and one VBUS channel, which provides 3.2kW of lightning surge stress protection for the VBUS power line, with a peak pulse current ( $I_{PP2}$ ) up to 80A in compliance with IEC61000-4-5 requirements. A low 0.4pF input capacitance on the I/O channels ensures compatibility with high-speed data ports such as USB 2.0 OTG (on-the-go) and the device is also capable of supporting USB 3.x data rates.

With a maximum leakage on the VBUS and I/O pins of just 50nA, the D5V0F3B6LP20 not only saves battery power but can also meet application requirements that demand ultra-low leakage, such as medical equipment. In addition to offering a more rugged surge protection solution than its competitors, this TVS diode array enables compact PCB layouts with its small footprint DFN2020 package. 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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