



Power Switches from Diodes Incorporated Increase Power Density in USB Port Protection Duties

Plano, Texas – January 8, 2013 – 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 announced the AP2552 and AP2553 power switches. These programmable current-limiting power switches provide over-current protection for two USB3.0 ports or up to four USB2.0 ports. The AP2552 and AP2553 are able to protect loads of up to a maximum of 2.1A, making them suitable for notebook, set-top boxes, LCD TV products and other applications that require reliable over-current protection on 3.3V and 5V power rails. These single-channel power switches ensure accurate current setting and simple system configuration.

To better address circuit fault protection requirements, four new power switch variants have been introduced by Diodes Incorporated: the AP2552 (low enable) and AP2553 (high enable), which limit output current to a constant safe level when output exceeds current limit threshold; and the AP2552A (low enable) and AP2553A (high enable), which provide latch-off during over-current, reverse-voltage or reverse-current conditions. All devices are available in the miniature SOT26 and U-DFN2020C-6 packages.

The devices' high current accuracy, typically $\pm 6\%$ at 1.5A, permits closer matching of the current limit to precise system requirements, helping to reduce the need to build in unnecessary overhead. Their highly scalable current limit, from 75mA to 2.35A, means the power switches can be used across a wide range of design platforms, with just a single external resistor change required.

For improved system robustness, the power switches exhibit a fast transient response time of just 2µs to prevent unnecessary system shutdown or restart. They provide a complete protection solution for USB ports, through reverse-current blocking, under-voltage lockout, over-current, over-temperature and short-circuit features. In addition, rise and fall times are controlled to minimize current surges during turn-on and turn-off. For further information, visit the Company's website at 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, 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. The Company's corporate headquarters, logistics center, 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. The Company's wafer fabrication facilities are located in Kansas City, Missouri and Manchester, with two 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; Tokyo, Japan; and Munich, Germany, with support offices throughout the world. For further information, including SEC filings, visit the Company's website at <http://www.diodes.com>.

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Company Contact:

Diodes Incorporated
Julie Holland
VP, Worldwide Analog 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