



2.0A, 2.5A and 3.0A Power Switches from Diodes Incorporated Designed for USB Port Protection

Plano, Texas – March 21, 2017 – 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 AP22811 and AP22804/AP22814. Featuring an ultra-low on resistance to reduce power losses, these power switches are optimized for universal serial bus (USB) and other hot-swap applications. Supporting load currents of 2.0A, 2.5A and 3.0A, respectively, this family of devices protects USB ports against over-current, short-circuit and over-temperature conditions and prevents system damage due to reversed currents or voltages. Typical applications include laptop, notebook and tablet PCs, solid-state drives, set-top boxes and similar media devices, as well as various other items of consumer electronic equipment.

A typical $R_{DS(ON)}$ of 50m Ω ensures the AP22811/22804/22814 load switches incur minimal voltage drop and power loss while also providing a fast response to fault conditions. The devices provide a built-in soft start with a 0.6s rise time and an integrated output discharge function controls the complete discharge of the output voltage capacitor. Fault protection is implemented with full auto-recovery and the open-drain fault report flag output (FLG), which requires no external components, and features a 6ms blanking time to prevent false over-current reporting.

AP228xx device options allow for active-high or active-low enable inputs and all are offered in SOT-25 and MSOP-8 packages for ease of use. The AP22804 and AP22814 parts are additionally available in the DFN2020-6 package, which can help reduce board area. Further information is also be available 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, 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.

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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