



Programmable Load Switch from Diodes Incorporated Improves System Power Reliability

Plano, Texas – November 25, 2014 – 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 introduced the AP22966 programmable load switch. With fully adjustable output slew rates, this 5V dual-channel load switch provides simple and cost-effective soft-start functionality for improving 3.3V and 5V system power reliability in notebook, tablet and datacom products.

The device's two N-channel MOSFET outputs can be independently controlled, with slew rates set via ground-connected external capacitors on its soft-start inputs. A logic-high signal applied to the channel-enable pins produces output voltages that increase gradually and linearly, thereby limiting circuit inrush current. Additionally, an increase in power density is achieved with the AP22966's use of the small form factor, exposed-pad DFN3020 package, which offers a PCB footprint of just 6mm².

The AP22966 load switch operates over a wide 0.8V to 5.5V input voltage range. This device is also characterized by very low quiescent currents (60µA for both channels and 45µA for single-channel), making it well-suited for battery-backed distributed power systems where energy efficiency is paramount. Further information is 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 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, 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, 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. Diodes' wafer fabrication facilities are located in Kansas City, Missouri and Manchester, with two more located in Shanghai, China. In addition, two assembly-test facilities are located in Shanghai; two are located in Chengdu, China, with one in Neuhaus and one in 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; Suwon, South Korea; Tokyo, Japan; and Munich, Germany, with support offices throughout the world. For further information, including SEC filings, visit Diodes' website at <http://www.diodes.com>.

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