



Diodes Incorporated's Low Voltage Step-up DC-DC Converter Boosts Efficiency

Plano, Texas – June 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 PAM2401. This device is a low voltage 1MHz step-up DC-DC converter designed to meet the heightened efficiency demands of portable products including battery backups, cordless phones and GPS receivers. Maintaining an operational efficiency as high as 95%, this synchronous converter provides true output disconnect to prevent leakage and ensures safe start-up at an input as low as 1V.

The PAM2401 offers a programmable current limit of 1.0A to 3.0A for its lower input operation voltage range of 0.9V to 4.75V. To help maximize battery life, the device automatically enters a high-efficiency pulse-skipping mode when driving light loads. In shutdown, quiescent current is less than 1 μ A.

By operating at a high fixed-switching frequency and integrating an N-channel MOSFET switch, a P-channel synchronous rectifier and a power-good indicator into MSOP-8 and U-DFN3030-12 packages, the converter reduces the number and size of external components and overall board space requirement.

The converter also provides over-voltage and over-temperature protection functions, with the device's soft-start circuit ensuring safe automatic restart. Other features include anti-ringing control and hiccup-mode short-circuit protection. 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, 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. 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 additional facilities located in Shanghai, China. Diodes has an assembly and test facility located in Shanghai, in Chengdu, China, as well as in Neuhaus and 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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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