



Diodes Incorporated Introduces DIOFETs that Raise Efficiency and Increase Reliability of PoL Converters

Dallas, Texas –August 31, 2010 – 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 first products from its proprietary DIOFET™ process that monolithically integrates a power MOSFET and anti-parallel Schottky diode into a single die. Used in the low side MOSFET position of synchronous buck point-of-load (PoL) converters, the DMS3014SSS and DMS3015SSS improve the efficiency and lower the operating temperature of fast switching PoL converters in high volume computing, telecom and industrial applications.

With typical $R_{DS(ON)}$ ratings of only 10m Ω and 8.5m Ω , respectively, at V_{GS} of 10V, these devices minimize the conduction losses traditionally associated with low side MOSFETs. At the same time, the forward voltage of the DIOFET's integrated Schottky diode is 25% lower than comparable MOSFET/schottky solutions and 48% lower than that of the intrinsic body diode of a typical MOSFET, thereby minimizing switching losses and improving efficiency. The low Q_{RR} of DIOFETs integrated schottky and softer reverse recovery characteristics further contribute toward minimizing body diode switching losses.

In benchmark tests, the DIOFETs operate at a temperature that is 5% lower than that of competing solutions. As every 10°C reduction in MOSFET junction temperature doubles lifetime reliability, the lower operating temperature of the DIOFETs increases the reliability of the PoL converter. Further information can be found on the Company's website at <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, 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 Dallas, Texas. Design, marketing, and engineering centers are located in Dallas; 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, another in Neuhaus, and a joint venture facility located in Chengdu, China. Additional engineering, sales, warehouse, and logistics offices are located in Taipei; Hong Kong; Manchester; and Munich, Germany; with support offices located throughout the world. For further information, including SEC filings, visit the Company's website at <http://www.diodes.com>.

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