



## **MOSFET Controller from Diodes Incorporated Enables PSUs to Exceed Energy Star Efficiency Goals**

**Plano, Texas – February 24, 2012** – 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 ZXGD3105N8 synchronous MOSFET controller. Enabling flyback power supply designers to replace inefficient Schottky rectifiers with a MOSFET driven as an ideal diode, the ZXGD3105N8 can achieve a standby power consumption for set-top boxes of less than 100mW and full-load efficiencies greater than 87%.

Drawing a quiescent current of less than 1mA, and with its ability to operate from supply voltages as low as 4.5V, the controller outperforms competing solutions and delivers flyback power supplies capable of exceeding the Energy Star standby ratings.

Of interest to makers of AC-DC and DC-DC internal and external power supplies used in both industrial and consumer product sectors, the SO8 packaged ZXGD3105N8 can also operate at switching frequencies as high as 500kHz, affecting a reduction in transformer size leading to slimmer form factor design.

To help maximize power supply circuit efficiency, the MOSFET controller functions as a proportional gate drive, which both protects against unnecessary MOSFET turn-off and reduces MOSFET turn-off propagation delay down to 15ns, thereby minimizing reverse current flow. For further information, visit the Company's website at [www.diodes.com](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 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, another in Neuhaus, and two joint venture facilities located in Chengdu, China. Additional engineering, sales, warehouse, and logistics offices are located in Fort Worth, Texas; 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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