



High Power Factor Boost LED Driver from Diodes Incorporated Reduces Circuit Footprint of Dimmable MR16 LED Lamps

Plano, Texas – March 27, 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 AL8812 DC-DC converter. This device, which features boost, buck and voltage-inverting modes, co-packages a 60V, 3.6A-rated power N-channel MOSFET with all primary functions required by a DC-DC controller into the compact DFN6040-12 dual exposed-pad package, enabling a reduction in form factor of MR16 LED lamp circuits.

With a 6mm x 4mm footprint and an off-board profile of just 0.6mm, the AL8812 converter is comprised of a temperature-compensated reference, a comparator, a controlled duty cycle oscillator with an active current limit circuit, a driver and a high-current output switch.

The AL8812 features an input voltage range of 3V to 20V and an output voltage that is fully adjustable up to 60V. This wide operating voltage range makes the device suitable for medium-voltage LEDs and 12VAC lighting applications, as well as dimmable MR16 LED lamps.

Shut-down current is very low at less than 0.01 μ A, typical, and its maximum output switch current is 3.6A. The converter is able to deliver very accurate voltage and current control by incorporating a precision reference with a 2% tolerance.

By combining the AL8812 with its AL8807A constant current step-down converter, Diodes Incorporated has produced a two-stage reference design for dimmable MR16 LED lamps that provides good transformer compatibility and low

current ripple at a very reasonable BOM cost. 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 four manufacturing facilities located in Shanghai, China, and two joint venture facilities located in Chengdu, China, as well as manufacturing facilities located in Neuhaus and 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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