



## **Dimmable Buck LED Driver from Diodes Incorporated Simplifies LED Lighting Design**

**Plano, Texas – March 13, 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 AL8807B dimmable buck LED driver. The AL8807B enables a reduction in component count and PCB size in 12V and 24V LED lighting systems and MR16-type LED lamps. This is a hysteretic driver with an integrated power switch and operates at a switching frequency of 1MHz.

The output current is set using a single external sense resistor and dimming is achieved by applying a fast digital PWM signal to the driver's control input. A low voltage, applied to the same input, turns the output power switch off. Lamp reliability is ensured by the driver's built-in, over-temperature, LED open-circuit and short-circuit protection features.

By packaging the driver in a small footprint, low thermal-resistance MSOP-8EP package, a higher power density is achieved, maximizing the permissible LED current over a wider ambient temperature range. The AL8807B delivers an LED drive current up to 1.3A and operates between -40°C to +125°C with an efficiency of 96%.

From voltage sources between 6V and 36V, the driver will produce a constant current for a chain of high-brightness LEDs. Average LED current accuracy is better than 5%, helping to improve channel-to-channel matching and while meeting the requirements of most medium-voltage LED lighting products. 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, 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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**Company Contact:**

Diodes Incorporated  
Julie Holland  
VP, Worldwide Analog Products  
P: 972-987-3900  
E: [pressinquiries@diodes.com](mailto:pressinquiries@diodes.com)

**Investor Relations Contact:**

Shelton Group  
Leanne K. Sievers  
EVP, Investor Relations  
P: 949-224-3874  
E: [lsievers@sheltongroup.com](mailto:lsievers@sheltongroup.com)