



High Power-Factor Buck LED Driver Meets Worldwide Retrofit Lamp Requirements

Plano, Texas – May 17, 2016 – Diodes Incorporated (Nasdaq: DIOD), a leading global manufacturer and supplier of high-quality application specific standard products within the broad discrete, logic, analog and mixed-signal semiconductor markets, today announced the AL1676. This universal AC-input LED driver is designed to meet or exceed worldwide power-factor regulations for non-dimmable retrofit LED bulbs and tube lighting, providing a design that also delivers high efficiency and a low BOM cost. Options for the integrated MOSFET allow for 300V to 650V drain voltages and 1A to 4A drain currents in order to suit most 3W to 18W bulb requirements.

High power-factor operation is achieved with a single-stage buck converter topology, which uses constant on-time control and a simple closed loop to ensure the AL1676 delivers an accurate constant LED output current with good line and load regulation. Operating in boundary conduction mode eases EMI/EMC design requirements while the ability to detect off-time helps eliminates the need for an auxiliary winding, contributing to the device's very low BOM count and cost.

The AL1676 includes multiple protection features such as under- and over-voltage, over-temperature and thermal fold-back that all help to increase system reliability within the high ambient temperatures encountered in an LED bulb. The high level of integration coupled with a small 5mm x 6mm SO-7 package also enable a very compact solution size, reusing the same design footprint for different wattage bulbs by virtue of the MOSFET options.

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, analog and mixed-signal semiconductor markets. Diodes serves the consumer electronics, computing, communications, industrial, and automotive markets. Diodes' products include diodes, rectifiers, transistors, MOSFETs, protection devices, function-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 and Milpitas, California. Design, marketing, and engineering centers are located in Plano; Milpitas; Taipei, Taiwan; Taoyuan City, Taiwan; Zhubei City, Taiwan; Manchester, England; and Neuhaus, Germany. Diodes' wafer fabrication facilities are located in Kansas City, Missouri and Manchester, with an additional facility located in Shanghai, China. Diodes has assembly and test facilities located in Shanghai, Jinan, Chengdu, and Yangzhou, China, as well as in Hong Kong, Neuhaus and Taipei. Additional engineering, sales, warehouse, and logistics offices are located in Taipei; Hong Kong; Manchester; Shanghai; Shenzhen, China; Seongnam-si, South Korea; and Munich, Germany, with support offices throughout the world.

Recent news releases, annual reports and SEC filings are available at the Company's website: <http://www.diodes.com>. Written requests may be sent directly to the Company, or they may be e-mailed to: diodes-fin@diodes.com.

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