



Diodes Incorporated's LED Driver Enables High Power-Factor Retrofit LED Lamps

Plano, Texas – September 27, 2013 – 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 AP1684, a power factor-corrected AC-DC LED driver suiting a variety of offline LED lamp types including E26, GU10, PAR and T8. Using pulse-frequency modulation technology and operating in boundary-conduction mode, this device provides tight current regulation to an accuracy of $\pm 2\%$, while achieving a power factor of .97 and THD of less than 20%.

Helping to significantly reduce circuit BOM cost, this primary-side driver removes the need for opto-coupler, secondary-side control and loop-compensation circuitry. Driving an external bipolar junction transistor, the AP1684 requires only a small external component count and coupled with its SO-8 packaging, enables lamp designers to reduce PCB footprint, increase power density and raise overall product reliability.

The driver keeps start-up and operating currents low and uses dynamic base driver control and valley-mode switching to minimize transition loss and achieve high efficiency, typically 93%. The AP1684's circuit protection features are comprehensive and include over-voltage, short-circuit and over-temperature facilities. 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, 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. Diodes' wafer fabrication facilities are located in Kansas City, Missouri and Manchester, with two more located in Shanghai, China. In addition, two assembly-test facilities are located in Shanghai; two are located in Chengdu, China, with one in Neuhaus and one in 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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