



For immediate release

Triac-Dimmable LED Controller/Driver Design Platform from Diodes Incorporated Drives LED Lamps up to 25W

Plano, Texas – December 13, 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 introduced the AL1692. This LED controller/driver is a platform-based design solution for triac-dimmable LED lamps. The internal MOSFET versions provide a low-cost solution with compact PCB size and directly drive lamps rated from 3W to 13W. The controller-only version with an external MOSFET can support higher power applications up to 25W.

Intended for offline triac-dimmable LED lighting applications, the single-stage, buck-boost, non-isolated configuration of the AL1692 provides a high power factor, low total harmonic distortion and high triac dimmer compatibility solution to meet National Electrical Manufacturers Association (NEMA) Solid State Lighting (SSL) standards. The AL1692 eliminates auxiliary winding and provides an accurate output LED current that ensures excellent line and load regulation, while its operation in boundary conduction mode (BCM) achieves high-conversion efficiency and eases EMI design to further reduce BOM cost.

The AL1692 offers four internal MOSFET options with various drain-source on-resistances for either 120V_{AC} or 230V_{AC} operation, and to cover a wide range of output voltage/current applications including: 4.7Ω/700V, 4Ω/600V, 3.2Ω/500V and 2.8Ω/400V. Enhanced internal protection features, such as LED open/short circuit protection, over-temperature, under-voltage lockout, leading-edge blanking, cycle-by-cycle over-current protection, and thermal fold-back protection improve system safety and reliability.

The controller-only version of the AL1692 is offered in an SO-8 package while the MOSFET options are supplied in an SO-7 package. 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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