



Triac Dimmable LED Lamp Driver from Diodes Incorporated Increases Performance and Cost Savings

Plano, Texas – August 21, 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 AP1695. This LED lamp driver optimizes the design of sub 12W triac dimmer-compatible LED lamps by featuring a dimming range of 1 to 100% and up to a 30% reduction in bill of materials (BOM) cost.

For 120V and 230V mains-dimmable retrofit LED lamps such as the common 5W GU10 and 8W energy saver bulbs, the high-performance AP1695 uses a patented constant on-time control technique to enable deep triac dimming down to 1% and an increase in lamp/triac compatibility. Its dimming curve complies with the NEMA SSL6 standard and the driver is fully compliant with the requirements of the IEC6100-3-2 harmonic standard.

The AP1695 is a single-stage driver integrating a 500V high-voltage MOSFET into the space-saving SO-7 package. This device employs PFM technology to tightly regulate output current up to a 230mA (max), while maintaining a power factor higher than 0.9 and a THD rating less than 30%. Its boundary-conduction mode ensures higher efficiency and enhanced EMI performance.

By operating on the primary side, the device removes the need for opto-couplers, secondary-side control and loop-compensation circuitry without compromising application stability. The AL1695 also has the following integrated protection features: over-voltage, short-circuit and over-temperature protection. 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 two additional facilities located in Shanghai, China. Diodes has an assembly and test facility located in Shanghai, in Chengdu, China, as well as in Neuhaus and 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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