



Simple, Constant-Current Linear Regulator from Diodes Incorporated Improves LED Current Tolerance

Plano, Texas – December 5, 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 AL5809. This constant-current LED driver is offered in a robust two-terminal PowerDI[®]-123 package, and provides an improved accuracy, cost-effective solution for LEDs driving. With its 1.2W maximum power dissipation, excellent 20ppm/°C temperature stability and high power-supply rejection ratio, the AL5809 delivers LED currents with a $\pm 5\%$ tolerance over a wide temperature range, greatly simplifying the solutions for its target applications of LED signage, LED strip lighting and low-current retrofit lamps.

The AL5809 is specified for the -40°C to $+125^{\circ}\text{C}$ temperature range, with an operating voltage (between the two terminals) from 2.5V to 60V and is offered in various fixed-output current versions, which removes the need for external current setting resistors. The PowerDI-123 package fixed-output current options are 15mA, 20mA, 30mA, 40mA, 50mA, 60mA, 90mA, 120mA and 150mA, while in the alternative SOD-123 package there are current output versions of 15mA, 20mA, 30mA, 40mA and 50mA.

As well as meeting the needs of designs requiring a simple linear regulator (e.g., no inductor or external resistor), the AL5809 provides additional performance features over-temperature protection (OTP) and the ability to drive both low- and high-side LED chains.

The AL5809 is a small footprint, low BOM-cost LED driver that is simple to use and provides improved accuracy and all-round higher performance than competitive alternatives or discrete circuit designs. Further information is available at www.diodes.com.

PowerDI is a registered trademark of Diodes Incorporated.

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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