



For immediate release

400V Linear Regulators from Diodes Incorporated Deliver Constant LED Current in Compact Packages

Plano, Texas – May 10, 2018 – 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 AL5890. This linear constant-current regulator provides simple and more cost-effective solutions for driving LED strings from an off-line or DC power supply.

Available in a range of packages, the small form-factor of the AL5890 makes it ideal for any LED application where a lower BoM cost and sizes are important. The fully integrated design includes a power transistor and it is available in 10mA, 15mA, 20mA, 30mA, and 40mA variants. A single device or multiple devices in parallel can be used to source or sink enough current for long LED strings, with an overall accuracy of less than $\pm 2.0\text{mA}$ (typ), working over a wide ambient temperature range of -40°C to $+105^{\circ}\text{C}$.

Its simple two-pin PowerDI[®]123 design means it can be inserted directly in the LED string in low-side AC or DC, or high-side AC or DC linear configurations without any external resistors. It is designed to tolerate DC voltages of up to 400V and can be used in off-line applications up to 230V_{AC} . Thermal foldback protection is included, which prevents system failure by reducing the current in the event of high operating temperatures. As well as lowering the overall BoM, it also provides an effective solution to tackling EMI without the need for additional switching inductors.

Packaging options include PowerDI123, SOT89-3L, and TO252-3L to help address heat dissipation in various LED lighting applications including LED lamps, commercial LED fixtures, emergency lighting, signage and downlights, as well as decorative and architectural lighting. 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, 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 also has timing, connectivity, switching, and signal integrity solutions for high-speed signals. 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 facility is located in 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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