



Programmable Dimming LED Driver from Diodes Incorporated with Integrated 30V MOSFET and Schottky

Plano, Texas – October 6, 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 AL3050. This current-mode boost-type LED driver provides programmable brightness for LED backlighting of portable devices. Its advanced dimming features, small solution size, low BOM-cost and high efficiency make it well-suited for use in single-cell Li-ion based equipment with smaller LCD panels, such as feature/smart phones, portable media players, GPS receivers and other ultra-mobile devices.

With an integrated 30V 0.6 Ω MOSFET and power Schottky diode, the AL3050 can drive up to eight LEDs in series with the capability to connect multiple LED strings in parallel. It offers modes for regular PWM dimming with a 100:1 deep dimming ratio and a single-wire digital-dimming mode that provides a 32-step programmable brightness capability. The boost converter operates at a fixed 750kHz switching frequency to reduce output ripple, improve conversion efficiency and allow for the use of small external components.

The AL3050 ensures reliable system performance with robust LED-short and LED-open protection and system-start current limits, as well as providing standard over-current, over-voltage and over-temperature functionality. The AL3050 is available in a compact 2mm x 2mm U-DFN2020 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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