



Small Footprint Boost Controller from Diodes Incorporated Simplifies LED Backlighting

Plano, Texas – September 25, 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 AL3022 boost controller. This constant-frequency, voltage-mode, external-compensation boost controller is well-suited for TV and monitor manufacturers needing a cost-effective solution for driving LED backlights. The highly integrated AL3022 is supplied in the small footprint SO-8 package and significantly reduces the number of external components required for system design.

Operating at a fixed switching frequency of 140kHz, the controller handles up to 60W output power, and is suitable for a wide range of 14-inch to 42-inch LCD panel designs. The device uses a 200mV voltage reference to help minimize losses, thus improving system efficiency in many cases.

Delivering accurate line and load regulation, the AL3022 supports both PWM and analog LED string dimming control methods. PWM dimming is initiated by applying an external control signal of at least 100Hz, while analog dimming is triggered using a DC signal ranging from 0.8V to 2.4V.

To improve overall system reliability, the controller offers a complete suite of integrated protection features. Included in the device are under-voltage lockout, over-voltage, over-current and over-temperature protection circuits, as well as protection against output-to-ground short circuits. Further information is available 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, 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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