



Dimmable LED Controllers from Diodes Incorporated Drive Lamps up to 150W with High Power Factor

Plano, Texas – August 2, 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 announced the AL1663 and AL1663R. These single-stage dimmable LED controllers support fly-back and buck-boost topologies in order to provide primary-side regulation that achieves an accurate constant-current output without requiring opto-couplers and secondary control circuitry. Operating at up to 150W and featuring multiple dimming options, these controllers provide versatile and cost-effective drivers for LED backlighting, smart LED lighting and general-purpose dimmable LED lamps.

High efficiency and low EMI result from operation in boundary-conduction mode (BCM) with valley-switching control, which further ensures the AL1663 and AL1663R maintain high power-factors with low total harmonic distortion under universal input-voltage conditions. The use of primary-side regulation simplifies design and lowers total BOM component count and cost. The AL1663 and AL1663R are also characterized by low start-up current and low operating current, and integrate multiple protection features including over-voltage, short-circuit, over-current and over-temperature.

Analog and digital dimming modes are supported: the AL1663R has a single dimming pin that will accept either an analog signal between 0.3V and 2.4V DC or a digital PWM input when connected with a suitable input capacitor of several hundred nF. The AL1663 offers an additional digital dimming input pin that can accept a high-frequency PWM signal and provides built-in PWM-to-DC conversion. The AL1663 and AL1663R are both offered in SO-8 packages.

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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