



Linear LED Drivers from Diodes Incorporated Increase Efficiency in LED Strips

Plano, Texas – May 11, 2017 – 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 BCR401U, BCR402U and BCR405U. Appealing to lighting designers, these constant-current regulators enable simple driving of low-current LED strips and panels in the commercial and industrial lighting sectors. Targeted at 12V and 24V linear LED strips, these regulators increase light output efficiency as they only require a 1.4V supply, allowing more LEDs in the string.

By achieving regulation within $\pm 10\%$ and providing preset options of 10mA (BCR401U), 20mA (BCR402U), and 50mA (BCR405U) that can be adjusted up to 100mA, these regulators simplify the design, minimize component count, and overall enhance system reliability by integrating the driver. Combined with the improved efficiency and longer life offered by LEDs, many lighting applications including advertising, emergency, refrigeration, decorative, architectural and other general forms are being superseded with this emerging light source.

Delivering a regulated current over a wide 1.4V to 40V supply, the BCR40xU will tolerate voltage spikes and LED short failures in strings, whilst preserving LED brightness and longevity. This, along with a negative temperature coefficient that reduces the LED current with rising temperature, helps to increase the LED lifespan by reducing dissipation and additionally enables parallel device operation for increased current in applications requiring more than 100mA.

The BCR40xU operates as a linear LED driver, minimizing the likelihood of EMI, which is particularly important in medical lighting and other sensitive applications, while LED brightness can be PWM controlled with $< 1\%$ duty cycle at 25kHz allowing accurate dimming to low light levels.

The BCR401U, BCR402U and BCR405U LED drivers are offered in the industry-standard SOT-26 (SC74R) package. Further information is also 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, 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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