



Product news

Ultra-Low Dropout Linear LED Driver from Diodes Incorporated Extends Lighting Strips

Plano, Texas – January 7, 2020 — Diodes Incorporated (Nasdaq: DIOD) today announced the [BCR430UW6](#) linear LED driver with ultra-low dropout voltage and constant current regulation between 5mA and 100mA. This combination allows more LEDs to be driven from a low supply voltage, making the BCR430UW6 suitable for applications that require multiple LEDs to operate together, such as signage illumination and architectural lighting for commercial and retail installations.

The ultra-low dropout voltage of 115mV and low operating current of just 285µA provides a greater level of system efficiency and scope to drive more LEDs per string reliably. These factors are particularly important in applications where the characteristics of the lighting are essential to the user experience, such as signage and architectural illumination.

The device requires no external power transistors or capacitors, reducing the overall BoM cost and increasing system stability. Long-term reliability is also improved through the robust design, which is tolerant to overvoltage levels resulting from faults in the LEDs or supply transients. Integrated thermal protection limits the output current in the event of high operating temperatures, avoiding operational failure and maximizing the working lifetime of the LEDs.

With an adjustable output current level between 5mA and 100mA, the BCR430UW6 can provide greater flexibility, allowing a single design to be used to drive various LED configurations. The output is highly stable, held at ±5% across temperature variations and supply voltage fluctuations. This stability delivers a uniform output lighting level under all operating conditions.

Other advanced features include PWM-based dimming, an operating voltage range of 5V to 42V, and support for parallel operation to further increase the regulated output current.

The BCR430UW6 is provided in a SOT26 package.

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, 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, UK; and Neuhaus, Germany. Diodes' wafer fabrication facilities are located in Manchester and Greenock, UK, and 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; Munich, Germany; and Tokyo, Japan, 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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