



*For immediate release*

## **1A DC-DC Buck Converters from Diodes Incorporated Achieve High Efficiency Under Light-Load and Full-Load Conditions**

**Plano, Texas – August 9, 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 AP3401 and AP3428. These DC-DC step-down converters are capable of driving loads up to 1A with excellent line- and load-regulation provided by a constant-frequency PWM control that requires no external compensation and so minimizes component count and material costs. Developed to meet the demands of set-top boxes, TVs, routers, Wi-Fi modules and security systems, these buck converters feature low power consumption and highly-efficient light-load operation.

The AP3401/3428 operate from an input voltage between 2.5V and 5.5V, making them well-suited for use with a single Li+/Li-polymer cell, multiple Alkaline/NiMH cells and other power sources; they also deliver an output voltage from 0.6V up to the full input voltage with an output current up to 1A. The high-current and low-dropout threshold performance is achieved with the benefit of integrated ultra-low  $R_{DS(ON)}$  MOSFETs and the ability to operate at 100% duty cycle with a switching frequency up to 1.5MHz. The AP3401 also features a power-good output.

An integrated soft-start reduces start-up current spikes to avoid system damage when switching power on or off. Other features for protection of the IC and system include over-current, under-voltage lockout and over-temperature with thermal shutdown. The AP3401/3428's DFN2020 package with exposed pads provides the power handling capability needed for thermally demanding consumer applications.

For further information, visit the Company's website at [www.diodes.com](http://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](mailto:diodes-fin@diodes.com).

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