



*For immediate release*

## **High-Frequency 600mA DC-DC Buck Converter from Diodes Incorporated Achieves High Efficiency Over Full Load Range**

**Plano, Texas – January 27, 2016** – 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 AP3405. This DC-DC buck converter delivers high efficiency under light and heavy loads and targets mobile phones, wearable devices and similar battery-powered applications. Operating with a fixed switching frequency of 2MHz reduces the size of external components, while a small U-DFN2020-8 package also saves board area.

The AP3405 current mode, PWM synchronous, step-down converter operates with a 2.3V to 5.5V  $V_{IN}$  range and supplies an output from 0.7V to 5.5V, accurate to  $\pm 1.5\%$ , up to 600mA. A low 32 $\mu$ A quiescent current draw helps extend battery life and internal MOSFETs with low  $R_{DS(ON)}$  enable high efficiency under all load conditions.

Comprehensive protection features built into the AP3405 protect both the end system and the device itself. These include hiccup mode short-circuit protection (SCP), under-voltage lock-out (UVLO), over-temperature protection (OTP) and over-current protection (OCP).

The AP3405 is in the space-saving U-DFN2020-8 package. Further information is available 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, California; 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, in Jinan, in Chengdu, and in Yangzhou, China, as well as in Hong Kong, Neuhaus and in 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.

On November 24, 2015, Diodes Incorporated acquired Pericom Semiconductor Corporation with headquarters in Milpitas, California, and with design centers and technical sales and support offices globally. Pericom enables serial connectivity with the industry's most complete solutions for the computing, communications, consumer and embedded market segments. Pericom's analog, digital and mixed-signal integrated circuits, along with its frequency control products are essential in the timing, switching, bridging and conditioning of high-speed signals required by today's ever-increasing speed and bandwidth demanding applications.

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