



For immediate release

Switch-Mode AC-DC Regulator from Diodes Incorporated Enables Ultra-Low Standby Power in USB Chargers

Plano, Texas – December 3, 2015 – 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 AP3785T. This AC-DC primary-side switched-mode power supply controller is aimed at 8W to 15W 5V output USB chargers that necessitate ultra-low standby power. This market requirement is driven by smart phones and tablets with larger battery capacities and increasingly tight power supply efficiency regulations.

Various features contribute to the superior performance delivered by the AP3785T: a no-load input power rating of less than 10mW; higher efficiency and better EMI result from valley-on operation and a low V_{CS} jitter specification; higher conversion efficiency is also achieved when the AP3785T is used in conjunction with a synchronous rectifier, such as the AP4341. Multiple PWM/PFM control modes further help improve audio noise and efficiency.

Over-voltage protection, output short-circuit protection and transformer saturation protection (via primary peak-current limitation) are all built into the AP3785T. Internal temperature protection is also provided along with a dedicated pin to support external temperature protection. When operating as a constant current regulator, a feedback pin enables compensation for changes in line voltage whereas in constant voltage mode the AP3785T can compensate for voltage drops due to different cable lengths or gauge.

The AP3785T is offered in a small, standard pinout SO-8 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 and analog semiconductor markets. Diodes serves the consumer electronics, computing, communications, industrial, and automotive markets. Diodes' products include diodes, rectifiers, transistors, MOSFETs, protection devices, functional 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. Design, marketing, and engineering centers are located in Plano; San Jose, California; Taipei, Taiwan; Manchester, England; and Neuhaus, Germany. Diodes' wafer fabrication facilities are located in Kansas City, Missouri and Manchester, with two additional facilities located in Shanghai, China. Diodes has assembly and test facilities located in Shanghai and in Chengdu, China, as well as in 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. For further information, including SEC filings, visit Diodes' website at www.diodes.com.

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