



Synchronous Rectifiers from Diodes Incorporated Offer High Integration and Efficiency for Portable Electronics Chargers

Plano, Texas – March 04, 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 APR3415 and APR34330. These synchronous rectifiers address the need for higher integration and efficiency in portable chargers by combining a driver circuit with an internal MOSFET to provide cost-effective rectification with reduced power dissipation and fewer external components. Target applications include adapters/chargers for cellular and cordless phones, ADSL modems, MP3 players, and similar portable consumer products and home appliances.

The APR3415 and APR34330 are synchronous rectification switchers for 5V output-voltage applications operating in discontinuous conduction mode. Synchronous rectification can reduce secondary-side power dissipation, while the devices' ability to sense the MOSFET drain-to-source voltage enables an optimal drive signal using fewer external components. The internal N-channel MOSFET has been optimized for low gate charge, low $R_{DS(ON)}$, fast switching speed and reverse recovery, which helps these devices provide a fast response to secondary-side voltage and can also improve the transient performance of a primary-side control system.

The APR3415 is aimed at designs requiring output currents up to 2A and is supplied in a standard SO-8 package. The APR34330 is intended for output currents up to 1.5A and is offered in an SO-8EP exposed pad package. Both devices feature over-voltage protection (OVP) and V_{CC} under-voltage lock out,

which is not typically available on competitive devices. This not only aids system safety and reliability, but also extends the devices' use in additional application areas, such as standby and auxiliary power supplies. 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 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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