



## **Diodes Incorporated Targets Chargers for Cell Phones and Portable Devices with Highly Efficient Synchronous Rectification Controller**

**Plano, Texas – January 30, 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 APR343 synchronous rectification controller. This device addresses the need for a highly integrated, efficient and cost-effective solution for cell phone and similar portable electronic device chargers.

The APR343 integrates a secondary-side MOSFET driver with an output voltage detection function to support a primary-side control system. This circuit configuration allows for synchronous rectification in discontinuous conduction mode by sensing the MOSFET drain-to-source voltage and providing a periodic signal to drive the MOSFET when the output voltage is lower than a certain threshold. By responding quickly to the secondary-side voltage, the APR343 can improve the transient response of the primary-side control system and reduce the power dissipation of the secondary-side rectifier.

The APR343 features over-voltage protection and under-voltage lockout (UVLO) functionality as well as a design that minimizes external components. Packaged in the space-saving SOT25, the APR343 provides a high-performance rectification solution to meets the increasingly demanding power converter requirements for the consumer and home appliance markets.

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 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](http://www.diodes.com).

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