



**For immediate release**

## **Small Footprint Secondary-Side MOSFET Driver from Diodes Incorporated Reduces BOM Cost in 5V to 12V Power Supplies**

**Plano, Texas – July 12, 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 APR345. This secondary-side MOSFET driver delivers the smallest size, lowest BOM cost solution for synchronous rectification in 5V to 12V power supplies. This device is suitable for line-powered adapters and chargers for consumer products such as smartphones and tablets, PVRs and IPTV boxes, cable and xDSL modems, datacom equipment and other portable consumer/home appliances. This device provides a high-performance power conversion solution for standby and auxiliary power supplies.

In conjunction with an external MOSFET for greater design flexibility, the APR345 driver provides synchronous secondary-side rectification control that supports various flyback circuit topologies operating in CCM, DCM and quasi-resonant modes. By sensing the external MOSFET's drain-to-source voltage and driving the MOSFET to reduce the voltage drop, the APR345 reduces power dissipation and improves overall system efficiency.

Supplied in a SOT26 package and requiring a minimum of external components, the highly integrated APR345 provides a versatile, efficient and cost-effective rectification controller that occupies a smaller board footprint than competing devices. 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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