



## **Super Barrier Rectifier from Diodes Incorporated Helps Reduce Charger Size**

**Plano, Texas – May 2, 2013** – 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 15A-rated SBR15U50SP5 Super Barrier Rectifier (SBR<sup>®</sup>) to meet the needs of next-generation smartphone and tablet chargers. Characterized by low forward voltage and low reverse leakage, this miniature SBR has been designed to tolerate the higher current pulses and operating temperatures of low-profile, discontinuous mode flyback charger designs.

Presenting a forward voltage of just 0.35 V for a current of 10A at an ambient temperature of +90°C, the SBR15U50SP5 ensures conduction losses are minimized, thereby increasing charger efficiency. Its low reverse leakage at higher temperatures means that blocking mode losses are also reduced, removing the risk of thermal runaway and raising reliability.

The SBR's electrical performance, combined with the low thermal resistance of the compact PowerDI<sup>®</sup>-5 package, means that heat transfer is optimized, enabling much smaller, thinner charger designs to be achieved. Diodes' proprietary PowerDI-5 package occupies a maximum footprint of only 4.05mm x 6.60mm and has an off-board profile of just 1.15mm. 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 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, logistics center, 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 four manufacturing facilities located in Shanghai, China, and two joint venture facilities located in Chengdu, China, as well as manufacturing facilities located in Neuhaus and Taipei. Additional engineering, sales, warehouse, and logistics offices are located in Fort Worth, Texas; Taipei; Hong Kong; Manchester; Shanghai; Shenzhen, China; Seongnam-si, South Korea; Suwon, South Korea; Tokyo, Japan; and Munich, Germany, with support offices throughout the world. For further information, including SEC filings, visit Diodes' website at <http://www.diodes.com>.

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