



Trench Super Barrier Rectifiers from Diodes Incorporated Meet Efficiency Targets of Next Generation Chargers

Plano, Texas – September 30, 2014 – 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 introduces the first devices to be launched from Diodes' proprietary Trench SBR[®] (Super Barrier Rectifier) technology, which enables the stringent efficiency and temperature targets of next generation battery chargers to be achieved.

With their ultra-low forward voltage, low leakage current and cooler running characteristics, the new Trench SBRs meet the requirements of the charger output rectifier diode, easily coping with the shorter current pulses of 36kHz discontinuous mode charger designs.

Diodes Incorporated has initially introduced two devices: the 15A SBRT15U50SP5, for 10W smartphone chargers; and the 20A SBRT20U50SLP, for 12.5W tablet chargers. Such chargers are becoming smaller and thinner, and have efficiency and temperature targets that cannot be adequately met with traditional Schottky diode solutions.

SBRT15's forward voltage of 0.47V at 15A and SBRT20's forward voltage of 0.5V at 20A, coupled with an operating temperature of +90°C, means conduction losses are minimized and charger efficiencies are increased. The devices' low reverse leakage currents at high temperatures, respectively 105mA and 100mA at +125°C, also help minimize blocking mode losses.

The SBRT20U50SLP and SBRT15U50SP5 are the first rectifiers to be released from a complete portfolio of Trench SBR devices that span a reverse voltage range from 10V to 100V, current handling capability from 0.2A to 40A and a variety of different package options, including Diodes' space-saving PowerDI[®] 123, PowerDI5 and PowerDI5060. Further information is available at www.diodes.com.

SBR and PowerDI are registered trademarks of Diodes Incorporated.

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 two more located in Shanghai, China. In addition, two assembly-test facilities are located in Shanghai; two are located in Chengdu, China, with one in Neuhaus and one in 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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