Diodes Incorporated’s Super Barrier Rectifiers Raise Reliability in Automotive Applications

Plano, Texas – June 15, 2011 – Diodes Incorporated (Nasdaq: DIOD), a leading global manufacturer and supplier of high-quality application specific standard product within the broad discrete, logic and analog semiconductor markets, today announced the first devices in a family of Super Barrier Rectifiers (SBR®) designed for automotive applications. With a lower forward voltage drop, improved avalanche rating and higher safe operating area (SOA) than alternative Schottky or ultra-fast diode alternatives, these rugged rectifiers enable automotive designers to increase the reliability of motor control, display panel and LED lighting circuits.

Utilizing Diodes’ patented SBR technology, the AECQ101 qualified SBR20A60CTBQ, SBR30A45CTBQ and SBR3045CTBQ rectifiers handle output currents of 20A and 30A and are provided in the industry-standard TO-263 package, while the SBR1045D1Q is rated for 10A and comes in the slightly smaller TO-252 package.

The SBRs’ low $V_F$ means circuit power efficiency can be significantly improved and much cooler operation achieved. The resulting improvement in reliability is further increased by the devices’ higher reverse avalanche rating, that provides greater protection against transient voltage spikes and its lower reverse leakage that provides a higher SOA and guards against thermal runaway in high-temperature operating conditions. For further information, visit the Company’s website at www.diodes.com.

SBR is a registered trademark 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, 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. The Company’s 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. The Company’s wafer fabrication facilities are located in Kansas City, Missouri and Manchester, with two manufacturing facilities located in Shanghai, China, another in Neuhaus, and a joint venture facility located in Chengdu, China. Additional engineering, sales, warehouse, and logistics offices are located in Taipei; Hong Kong; Manchester; and Munich, Germany; with support offices located throughout the world. For further information, including SEC filings, visit the Company’s website at http://www.diodes.com.

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