



October 15, 2013

Microsemi's New 650V Silicon Carbide Schottky Solution Improves System Performance in High-power Industrial Applications

New Devices Enable System Efficiency Improvements in a Compact Footprint

ALISO VIEJO, Calif., Oct. 15, 2013 /PRNewswire/ -- **Microsemi Corporation** (Nasdaq: MSCC), a leading provider of semiconductor solutions differentiated by power, security, reliability and performance, today expanded its silicon carbide (SiC) Schottky product family with a new line of 650 volt (V) solutions. The new diodes are targeted at high-power industrial applications including solar inverters.

(Logo: <http://photos.prnewswire.com/prnh/20110909/MM66070LOGO>)

Wide bandgap semiconductors such as SiC feature the most advanced material that is being considered by many power electronics and systems designers in their new designs. SiC offers a number of benefits compared to silicon material including a higher breakdown field strength and higher thermal conductivity. These attributes allow designers to create products with better performance characteristics encompassing zero reverse recovery, temperature independent behavior, higher voltage capability and higher temperature operation to achieve new levels of performance, efficiency and reliability.

"Microsemi's SiC power semiconductors are ideal for power electronic designers looking to improve system efficiency," said James Kerr, senior product marketing manager for Microsemi's Power Products Group. "Silicon carbide is a game-changing technology for many of our customers. With in-house fabrication capabilities, a comprehensive portfolio of SiC solutions and a roadmap that includes several new SiC products, Microsemi is positioned to capitalize on this growing market opportunity."

Microsemi's new 650V SiC Schottky diode product portfolio includes:

- APT10SCD65K (650V, 10A, TO-220 package)
- APT10SCD65KCT (650V, 10A, common cathode TO-220 package)
- APT20SCD65K (650V, 20A, TO-220 package)
- APT30SCD65B (650V, 30A, TO-247 package)

These new solutions are also used in the company's power modules, which are used in aerospace, welding, battery charging and other high-power industrial applications.

Availability

Microsemi's new 650V SiC Schottky diodes are in production now. For more information, or to obtain a sample, please contact your local distributor or Microsemi sales representative, or email sales.support@microsemi.com and reference "SiC" in the subject line.

About Microsemi

Microsemi Corporation (Nasdaq: MSCC) offers a comprehensive portfolio of semiconductor and system solutions for communications, defense & security, aerospace and industrial markets. Products include high-performance and radiation-hardened analog mixed-signal integrated circuits, FPGAs, SoCs and ASICs; power management products; timing and voice processing devices; RF solutions; discrete components; security technologies and scalable anti-tamper products; Power-over-Ethernet ICs and midspans; as well as custom design capabilities and services. Microsemi is headquartered in Aliso Viejo, Calif., and has approximately 3,000 employees globally. Learn more at www.microsemi.com.

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"Safe Harbor" Statement under the Private Securities Litigation Reform Act of 1995: Any statements set forth in this news release that are not entirely historical and factual in nature, including without limitation statements related to its new product line of 650V silicon carbide Schottky diodes, and its potential effects on future business, are forward-looking statements. These forward-looking statements are based on our current expectations and are inherently subject to risks and uncertainties that could cause actual results to differ materially from those expressed in the forward-looking statements. The potential risks and uncertainties include, but are not limited to, such factors as rapidly changing technology and product obsolescence, potential cost increases, variations in customer order preferences, weakness or competitive pricing environment of the marketplace, uncertain demand for and acceptance of the company's products, adverse circumstances in any of our end markets, results of

in-process or planned development or marketing and promotional campaigns, difficulties foreseeing future demand, potential non-realization of expected orders or non-realization of backlog, product returns, product liability, and other potential unexpected business and economic conditions or adverse changes in current or expected industry conditions, difficulties and costs of protecting patents and other proprietary rights, inventory obsolescence and difficulties regarding customer qualification of products. In addition to these factors and any other factors mentioned elsewhere in this news release, the reader should refer as well to the factors, uncertainties or risks identified in the company's most recent Form 10-K and all subsequent Form 10-Q reports filed by Microsemi with the SEC. Additional risk factors may be identified from time to time in Microsemi's future filings. The forward-looking statements included in this release speak only as of the date hereof, and Microsemi does not undertake any obligation to update these forward-looking statements to reflect subsequent events or circumstances.

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