

Press Release

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IXYS Announces Ultra-Fast Switching with 1200V SiC Schottky Diode in SOT-227 Packages

Leiden, Netherlands. July 13, 2017 – IXYS Corporation (NASDAQ: IXYS), a leader in power semiconductors and IC technologies for energy efficient products used in power conversion and motor control applications, announced today the availability of the DCG45X1200NA and the DCG130X1200NA, both dual 1200V rated SiC Schottky diodes in MiniBLOC™ (SOT-227) package, which are fully isolated.

The [DCG45X1200NA](#) and the [DCG130X1200NA](#) both offer two SiC Schottky diodes with an average forward current of 2 x 22 Amps and 2 x 65 Amps, respectively at 80 degrees C case temperature and essentially zero forward and reverse recovery. This involves reduced turn on and turn off losses of the diodes and the related switches, resulting in higher power efficiency. The positive temperature coefficient of the forward voltage drop makes it easy to parallel devices for higher output power. The MiniBLOC™ package of the new products uses an advanced isolation structure with an optimized low thermal resistance. Lower dynamic losses and reduced thermal impedance allow for reduction of system size because of higher power density and switching frequency. Added benefits are an increase in reliability because of a lower die temperature swing in cycling power demand. Other products of the family are [DCG85X1200NA](#) and [DCG100X1200NA](#).

“With these new products we are expanding our fast diode portfolio and enable applications with higher power in switching and control for inverters, UPSs and rapid charger solutions,” states Dr. Elmar Wisotzki, Director of Technology for IXYS Germany. “Our SiC schottky portfolios give our customers more flexibility in choosing the right product for their application to improve efficiency at best performance-over-cost ratio. The SOT-227 package is a good match with our standard Power MOSFETs and IGBTs, enabling a low profile and high power density design.”

The diodes inside the package are electrically isolated from each other, allowing the designer to connect them either in parallel and build common cathode or phase leg configurations.

Typical applications are high efficient DC-DC converters, power inverters, uninterruptible power supply (UPS) systems, high performance power supplies, welding equipment and rapid-charger solutions.

Please visit IXYS website at www.ixys.com or contact the company directly for further product information.

About IXYS Corporation

Since its founding, IXYS Corporation has been developing power semiconductors and mixed signal ICs to improve power conversion efficiency, generate solar and wind power and provide efficient motor control for industrial applications. IXYS and its subsidiary companies offer a diversified product base that addresses worldwide needs for power control in the growing cleantech industries,

renewable energy markets, telecommunications, medical devices, transportation applications, flexible displays and RF power.

Safe Harbor Statement

Any statements contained in this press release that are not statements of historical fact, including the performance, features and suitability of products for various applications, may be deemed to be forward-looking statements. There are a number of important factors that could cause the results of IXYS to differ materially from those indicated by these forward-looking statements, including, among others, risks detailed from time to time in the Company's SEC reports, including its Form 10-K for the fiscal year ended March 31, 2017. The Company undertakes no obligation to publicly release the results of any revisions to these forward-looking statements.