

Press Release

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IXYS Introduces a New Class of Input Rectifiers with Superior Commutation Ruggedness for Power Management

Leiden, Netherlands. August 8, 2017 – IXYS Corporation (NASDAQ: IXYS), a leader in power semiconductor and IC technologies for energy efficient products used in power conversion and motor control applications, announces today the expansion of its portfolio with a new Input Rectifier technology that combines high electrical performance and high dynamic ruggedness. High performance rectifiers, above the 1000V range, utilizing highly reliable planar proprietary technology have been core to IXYS' worldwide leadership in bipolar power products.

Recent trends in the power electronics industry lead to cost optimization by reducing input filters or capacitor banks, thereby create more dynamic stress on the input rectifiers of such products. Often it is the input rectifiers that take the brunt of such excessive stress during current commutation. For these reasons, the commutation robustness and the power surge capability for overvoltage spikes have become a dominant benchmark factor for the selection of suitable power rectifiers for the input rectification.

IXYS now offers a new range of standard rectifier diodes with extremely high ruggedness to resist single dynamic events as well as continuous stress. One of the first products is the DMA50P1600HB, a diode phase-leg in a TO-247 package, with a reverse voltage of 1600V and a current rating of 50 Amps. Compared to the predecessor DSP45, the new input rectifier diode has a reduced forward voltage drop, better thermal conductivity and increased current surge capability by over 20%. This unique performance advantage is demonstrated during the commutation conditions in the input sections of AC line powered products.

“Compared to our standard predecessor diodes and competitor technologies like Mesa diodes, these new products define a new benchmark in input rectifier technology,” states Dr. Elmar Wisotzki, Director of Technology for IXYS Germany. “With the superior commutation robustness of the new products we are one step ahead on the market and complement our existing inverse diode technology, which is well established in the market for decades.”

The new diode product range starts with several phase-leg configurations in TO-247. Single diodes and products in other package styles are in planning.

DMA30P1200HB	30A / 1200V	Diode Phase-Leg	TO-247
DMA30P1600HB	30A / 1600V	Diode Phase-Leg	TO-247
DMA50P1200HB	50A / 1200V	Diode Phase-Leg	TO-247
DMA50P1600HB	50A / 1600V	Diode Phase-Leg	TO-247

Additional product information can be obtained by visiting the IXYS website <http://www.ixys.com/> or by contacting the company directly.

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 benefits, efficiency, 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-Q for the fiscal quarter ended June 30, 2017. The Company undertakes no obligation to publicly release the results of any revisions to these forward-looking statements.