

## Press Release

### **Contact:**

Nyan Tin  
IXYS Corporation  
1590 Buckeye Drive  
Milpitas, CA 95035  
Tel: (408) 457-9039  
Email: sales@ixys.net

### **IXYS Announces 200V Ultra-Junction X3-Class Power MOSFETs with Fast Body Diodes and Lowest On-Resistances**

Leiden, Netherlands and Milpitas, CA. December 12, 2017 – IXYS Corporation (NASDAQ: IXYS), a global manufacturer of power semiconductors and integrated circuits (ICs) for energy efficiency, power management, transportation, medical, and motor control applications, today announced a new power semiconductor product line: 200V Ultra-Junction X3-Class HiPerFET™ Power MOSFETs. The current ratings range from 36A to 300A; a broad selection of devices are available in a number of international standard packages.

Fabricated using a charge compensation principle and IXYS' own process technology, these new MOSFETs exhibit the lowest on-state resistances in the industry (3.5 milliohms in the SOT-227 package and 4 milliohms in the TO-264, for example). Along with gate charges as low as 21 nanocoulombs, these devices enable highest power densities and energy efficiencies in a wide variety of high-speed power conversion applications.

The fast body diodes of the devices are optimized and have low reverse recovery charge and time, thereby suppressing transients and enabling low-noise, high-efficiency power switching. Their low reverse recovery charge and time also boost efficiencies. In addition, these new MOSFETs are avalanche capable and exhibit a superior dv/dt performance (up to 20V/ns).

Targeted applications include synchronous rectification, battery chargers for light electric vehicles (LEVs), motor control (48V-110V systems), DC-DC converters, uninterruptible power supplies, electric forklifts, inverters, power solid state relays, and Class-D audio amplifiers.

The new 200V X3-Class Power MOSFETs with HiPerFET™ body diodes are available in the following international standard size packages: TO-3P, TO-220 (overmolded or standard), TO-247, PLUS247, TO-252, TO-263, TO-264, TO-268HV, SOT-227. Some example part numbers include IXFP36N20X3, IXFA72N20X3, IXFH90N20X3 and IXFN300N20X3, with current ratings of 36A, 72A, 90A and 300A, respectively.

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

## **About IXYS Corporation**

IXYS Corporation makes and markets technology driven products to improve power conversion efficiency, generate solar and wind power, and provide efficient motor controls for industrial applications. IXYS offers a diversified product base that addresses worldwide needs for power control, electrical efficiency, renewable energy, telecommunications, medical devices, electronic displays, and RF power.

## **Safe Harbor Statement**

Any statements contained in this press release that are not statements of historical fact, including the performance, rating, benefits 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 Report on Form 10-Q for the fiscal quarter ended September 30, 2017. The Company undertakes no obligation to publicly release the results of any revisions to these forward-looking statements.