

Tel. +34 933 098 891  
Fax. +34 933 001 841  
email [info@e-guasch.com](mailto:info@e-guasch.com)  
website [www.e-guasch.com](http://www.e-guasch.com)

RECTIFICADORES GUASCH, S.A.  
CIUTAT DE GRANADA, 80  
08005 BARCELONA  
ESPAÑA

## **IXYS Introduces 600V, High-Side Gate Driver IC for Power MOSFETs and IGBTs**

*The IX2127 Gate Driver HVIC is Produced using Clare's SOI Process*

Biel, Switzerland and Beverly, Massachusetts, USA, March 4, 2010 – IXYS Corporation, and its Clare subsidiary, introduced today the IX2127, a new high-voltage gate driver IC. The IX2127 is a high-voltage, high speed power MOSFET and IGBT driver IC, designed and produced internally in the Clare fab. High-voltage IC (HVIC) design methodology has been used to enable the IX2127 to drive N-channel power MOSFETs and IGBTs in the high-side configuration operating up to 600V.

Manufactured using Clare's high-voltage BCDMOS on Silicon-on-Insulator (SOI) process, the IX2127 is extremely tolerant to negative transient voltages, while providing excellent noise immunity. SOI technology provides 'true' oxide isolation, which is a more rugged isolation than alternative junction isolation. Integrated protection features include supply under-voltage lockout, over-current detection and shutdown, and fault reporting. An on-board comparator can be used to detect an over-current condition in the driven MOSFET or IGBT device, and then shut down drive to that device. An open-drain output, FAULT, indicates that an over-current shutdown has occurred.

"Our Clare team has been using the SOI process for HVIC products for the telecommunications market and for 'off-line' LED driver IC's for lighting applications. The IX2127 is a first in a line of HVIC power gate drivers, resulting from collaboration between our power (IXYS) and IC (Clare) teams. This high-side driver IC enable our customers to drive Power MOSFETs and IGBTs in a bridge configuration. The low power drive input signal allows these drivers to be controlled by micro-controllers (MCU's), like the Z8 series that our Zilog group produces for power and motor control", commented Dr. Nathan Zommer CEO of IXYS.

Using an industry standard pinout, the IX2127 is available in an 8-pin DIP or an 8-lead SOIC package, saving at least 50% PCB area compared to optocoupler or pulse transformer solutions.

The IX2127 is well suited for motor driver, switch-mode power supply, lighting, and industrial applications.

### **About Clare and IXYS, Inc.**

Clare, Inc., a leader in the design and manufacture of solid-state relays and high voltage integrated circuits, is a wholly owned subsidiary of IXYS Corporation. IXYS Corporation develops and markets primarily high performance power semiconductor devices that are used in controlling and converting electrical power efficiently in power systems for the telecommunication and internet infrastructure, motor drives, medical systems and transportation. IXYS also serves its markets with a combination of digital and analog integrated circuits. Additional information about Clare and IXYS may be found at [www.clare.com](http://www.clare.com) and [www.ixys.com](http://www.ixys.com).

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Persona de contacto del artículo:

Meritxell Vila  
Rectificadores Guasch, S.A.  
[m.vila@e-guasch.com](mailto:m.vila@e-guasch.com)