



Toshiba launches 3300V SiC MOSFET module for industrial equipment

High surge-current capability helps improve system reliability

Düsseldorf, Germany, 6th October 2026 – Toshiba Electronics Europe GmbH ("Toshiba") today announced the expansion of its line-up with the launch of IX800FXF2YMS4, a dual SiC MOSFET module. The new module offers high surge-current capability to support reliable operation in industrial equipment, including inverters and converters for railway vehicles and power conversion systems such as solid-state transformers, uninterruptible power supplies (UPS) and energy storage systems, and industrial motor control equipment. It also helps improve system efficiency through reduced conduction and switching losses.

The IX800FXF2YMS4 uses Toshiba's improved third-generation silicon carbide (SiC) MOSFET devices. The module has a drain-source voltage (V_{DS}) rating of 3300V and a drain current (DC) rating (I_D) of 800A.

The new IX800FXF2YMS4 has an I^2t rating of 300kA²s for its diode at initial channel temperature of 175°C, $V_{GS}=-6V$, a single half-sinewave 10ms pulse, and F.R.=1%. This indicates the diode's surge current capability under abnormal operating conditions. An optimised SiC MOSFET design enables this performance, helping to improve equipment reliability.

In addition, the module's low conduction and switching losses contribute to improved equipment efficiency and can help reduce cooling requirements. Typical drain-source on-voltage (sense) ($V_{DS(on)sense}$) is 1.4V at $I_D=800A$, $V_{GS}=+20V$ and $T_{ch}=25^\circ C$. Typical turn-on and turn-off switching losses (E_{on} and E_{off}) are 185mJ and 175mJ, respectively, at $V_{DD}=1800V$, $I_D=800A$ and $T_{ch}=175^\circ C$.

The new product is housed in the iXPLV™ (Intelligent Flexible Package Low Voltage) package, which uses silver (Ag) sintering die attach to improve heat resistance and reliability, supporting a channel temperature rating of 175°C. Its launch expands Toshiba's line-up of SiC MOSFET modules in the iXPLV package to four products.

Toshiba will continue to expand its line-up of SiC MOSFET modules for industrial equipment and provide a wider range of product options to meet various equipment specifications and applications. Toshiba will also contribute to improved reliability, higher efficiency and more compact industrial equipment.

Read more about the new IX800FXF2YMS4 SiC MOSFET module on Toshiba's website:
<https://toshiba.semicon-storage.com/eu/semiconductor/product/mosfets/sic-mosfet-modules/detail.IX800FXF2YMS4.html>

Follow the link below for more on Toshiba's SiC Power Devices
[Power Semiconductors | Toshiba Electronic Devices & Storage Corporation | Europe\(EMEA\)](#)

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Notes to editor:

* iXPLV is a trademark of Toshiba Electronic Devices & Storage Corporation.

About Toshiba Electronics Europe

[Toshiba Electronics Europe GmbH](#) (TEE) offers European consumers and businesses a wide variety of hard disk drive (HDD) products plus semiconductor solutions for automotive, industrial, IoT, motion control, telecoms, networking, consumer and white goods applications. Next to HDDs, the company's broad portfolio encompasses power semiconductors and other discrete devices ranging from diodes to logic ICs, optical semiconductors as well as microcontrollers and application specific standard products (ASSPs) amongst others. In addition, TEE offers SCiB™ battery cells and modules with lithium titanium oxide (LTO) for heavy-duty applications.

TEE has its headquarters in Düsseldorf, Germany, with branch offices in France, Italy, Spain, Sweden and the United Kingdom providing marketing, sales and logistics services.

Visit Toshiba's websites at www.toshiba.semicon-storage.com and www.scib.jp/en for further company and product information.

Contact details for publication:

Toshiba Electronics Europe GmbH, Hansaallee 181, D-40549 Düsseldorf, Germany

Tel: +49 (0) 211 5296 0

Web: www.toshiba.semicon-storage.com/eu/company/news.html

Contact details for editorial enquiries:

Michelle Shrimpton, Toshiba Electronics Europe GmbH

Tel: +44 (0)7464 493526

E-mail: MShrimpton@teu.toshiba.de

Issued by:

Birgit Schöniger, Pretzl Group Ltd.

Tel: +49 (0) 172 617 8431

Web: www.pretzl.com

E-mail: birgit.schoeniger@pretzl.com