Toshiba launches 6500V/2000A Press Pack IEGT for high-voltage DC power transmission and industrial drives

Built-in trench-type IEGT chips deliver high turn-off and short-circuit withstand capabilities that facilitate weight reduction and equipment miniaturisation

Düsseldorf, Germany, 17th February 2026 – Toshiba Electronics Europe GmbH ("Toshiba") announces the launch of the ST2000JXH35A, a new 6500V/2000A press pack injection enhanced gate transistor (IEGT) designed for high-voltage converters used in DC power transmission systems, industrial motor-drive equipment, and static synchronous compensators (STATCOM). This latest addition to Toshiba's power semiconductor lineup addresses the growing demand for energy-efficient, compact solutions in high-power infrastructure.

The ST2000JXH35A incorporates newly developed trench-type IEGT chips with an optimised cell structure to deliver high turn-off capability and robust short-circuit withstand performance. These technical enhancements enable the device to deliver a significant improvement over Toshiba's existing ST1700JXH26A by increasing the turn-off test voltage from 3600V to 4500V. Furthermore, the product has successfully undergone short-circuit testing at 4500V, confirming its suitability for applications requiring high operational stability under heavy electrical loads.

A key advantage of the ST2000JXH35A is its ability to streamline the design of high-voltage systems. By adopting this 6500V-rated product, engineers can reduce the number of series-connected devices required in DC power transmission architectures. This reduction in component count directly contributes to the weight reduction and miniaturisation of overall equipment designs. Consequently, these improvements help reduce construction and transportation costs, offering value for offshore converter stations in wind farms, where installation costs and logistical complexity are significant.

The product features a press-pack design that supports double-sided cooling and a hermetic sealing structure to ensure the reliability required for long-term industrial operation. In addition to transmission infrastructure, the ST2000JXH35A enables higher voltage ratings and more compact form factors for industrial motor drives and reactive power compensation devices that stabilise power systems.

Toshiba plans to continue expanding its lineup of press pack IEGTs to further support advancements in high-voltage converter technology.

Follow the link below for more on the new product: ST2000JXH35A

Follow the link below for more on Toshiba's IEGT (PPI).

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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.

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