

Toshiba focuses on power system designs at Electronica Virtual 2020

Düsseldorf, Germany, 2nd November 2020 – Toshiba Electronics Europe GmbH (“Toshiba”) today announced that it will participate in the Electronica Virtual 2020 event. The company’s virtual booth will showcase its latest innovations and emphasize its overriding passion for creating power solutions. Featuring finer lithographic technology, plus smaller and more reliable packaging solutions, these next generation solutions support the need for compact, feature-rich system designs that deliver elevated efficiency levels.

Industrial and Automotive applications are heavily reliant on advanced power semiconductors, and this will be underlined at Toshiba’s virtual booth. Staff will be available to deal with design engineers queries in relation to a broad range of different challenges - such as increasing system reliability, reducing size and weight, addressing thermal management issues, migrating to 48V, etc.

One of the highlights of the virtual booth is Toshiba’s new 1200V silicon carbide (SiC) MOSFET for high power industrial applications. Fabricated with Toshiba’s second-generation device structure^[1], the new SiC MOSFET offers enhanced operational reliability. When compared with an existing Toshiba 1200V silicon IGBT, the new device reduces turn-off switching losses by as much as 80% and switching time by up to 70%, while delivering low on-voltage characteristics with a drain current (ID) reaching 20A.

Toshiba will also be displaying its modular Servo Drive Reference Model for Multi-Channel Motor Control at its virtual booth. Combining leading-edge devices from the company’s power and discrete product portfolios, such as UMOS-IV-H MOSFETs, small MOSFETs, LDOs and opto-couplers, plus optimized motor control MCUs, this platform provides highly efficient control and drive solutions for brushless DC (BLDC) motors. It is targeted at applications where accurate, energy efficient control is mandated, including Robots, Cobots and AGVs, as well as battery-powered products.

Electronica Virtual 2020 will take place from 9th to 12th November. To attend this event please go to: <https://electronica.de/en/visitors/tickets-prices/>

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Notes:

[1] Toshiba news release on July 30, 2020: "Toshiba's New Device Structure Improves SiC MOSFET Reliability"

<https://toshiba.semicon-storage.com/ap-en/company/news/news-topics/2020/07/mosfet-20200730-1.html>

About Toshiba Electronics Europe

Toshiba Electronics Europe GmbH (TEE) is the European electronic components business of Toshiba Electronic Devices and Storage Corporation (Toshiba). TEE offers European consumers and businesses a wide variety of innovative 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.

TEE has headquarters in Düsseldorf, Germany, with branch offices in France, Italy, Spain, Sweden and the United Kingdom providing marketing, sales and logistics services. The company president is Mr. Tomoaki Kumagai.

For more company information visit TEE's web site at www.toshiba.semicon-storage.com.

Contact details for publication:

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

Tel: +49 (0) 211 5296 0 Fax: +49 (0) 211 5296 79197

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

E-mail: solution-marketing@toshiba-components.com

Contact details for editorial enquiries:

Michelle Shrimpton, Toshiba Electronics Europe GmbH

Tel: +44 (0)193 282 2832

E-mail: MShrimpton@teu.toshiba.de

Issued by:

Birgit Schöniger, Publitek

Tel: +44 (0) 1582 390980

Web: www.publitek.com

E-mail: birgit.schoeniger@publitek.com

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