



New ultra-low capacitance TVS diode launched by Toshiba

To be used for ESD protection of antennas and high-speed signal lines

Düsseldorf, Germany, 24th February 2022 – Toshiba Electronics Europe GmbH (“Toshiba”) has launched an ultra-low capacitance TVS diode. The product will perform a useful function in protecting electronic components such as semiconductors from static electricity and noise while suppressing signal quality deterioration within high-frequency antennas used for electronic equipment. As such, the new product will be used in a wide range of electronic equipment, including mobile devices.

The new DF2B6M4BSL TVS diode features a total capacitance of just 0.12pF (0.15pF max.), which is the lowest for any such Toshiba device, representing an (approximate) 25% reduction in capacitance when compared to the existing Toshiba product (DF2B6M4ASL).

Within high-frequency antennas for radio communications such as Wi-Fi, the original signal quality must be kept, by avoiding any harmonic distortion caused by the added TVS diode capacitance. The new DF2B6M4BSL with its ultra-low capacitance shows a very fast response in suppressing high voltage spikes without affecting the original data signal quality.

When the DF2B6M4BSL is used at 5.0GHz, a common frequency in Wi-Fi applications, with a 20dBm input, the second harmonic is -64.7dB while the third is -55.5dB. The device is therefore suitable for ESD protection of high-frequency antennas.

Shipment of the new device starts today.

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About Toshiba Electronics Europe

[Toshiba Electronics Europe GmbH](#) (TEE) is the European electronic components business of [Toshiba Electronic Devices and Storage Corporation](#). 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: discrete-ic@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: +49 (0) 4181 968098-13

Web: www.publitek.com

E-mail: birgit.schoeniger@publitek.com

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