



Toshiba expands protection Zener diodes portfolio with four new voltage ratings up to 75V

Products support 48V power systems in data centers, network and industrial equipment, offering robust protection against switching surges and ESD

Düsseldorf, Germany, 13th January 2026 – Toshiba Electronics Europe GmbH ("Toshiba") is expanding its surge protection Zener diodes lineup with the addition of four new products to its CUZ series. The CUZ56V, CUZ62V, CUZ68V, and CUZ75V, with Zener voltages (V_Z) of 56V, 62V, 68V, and 75V respectively, are designed for use in power supplies for data centers, network equipment, industrial systems, and system architectures with 48V and above.

The new products in the CUZ series are designed to protect semiconductor devices against long pulse width switching surges and induced lightning surges, which can occur in the range of microseconds to milliseconds, as well as overvoltage pulses that are close to DC. While Toshiba's TVS diodes specialise in ESD protection, these Zener products protect against surges while still providing electrostatic discharge (ESD) protection.

All four products in this specific lineup share an absolute maximum power dissipation (P_D) of 600mW and a peak pulse current (I_{PP}) rating of 5A, according to IEC61000-4-5 at a peak transient (t_p) of 8/20 μ s. For the individual products, the measured V_Z (min. to max.) ranges span from 52V to 60V (CUZ56V) up to 70V to 79V (CUZ75V), measured at a current (I_Z) of 2 mA. Additionally, ESD voltages (V_{ESD}) range from ± 13 kV (CUZ56V) to ± 23 kV (CUZ75V) under contact conditions, and 5kV under air conditions. The dynamic resistance (R_{DYN}) typically ranges from 3.1 Ω to 4.0 Ω , and the typical clamp voltage (V_C) ranges from 112V to 120V.

The new products are housed in the SOD-323 (USC) package, which features gull-wing leads for easy installation and provides good mounting visibility with automatic optical inspection (AOI) equipment for improved reliability. The package dimensions are small, typically 2.5mm x 1.25mm x 0.9mm, contributing to space-saving efforts on circuit boards and offering compatibility with existing SOD-323 mounting environments.

Toshiba will continue to expand its lineup of protection Zener diodes to help improve the reliability of electronic equipment.

For more information about the new products, please follow the links below:

[CUZ56V](#)

[CUZ62V](#)

[CUZ68V](#)

[CUZ75V](#)

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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.

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 Schöninger, Publitek

Tel: +49 (0) 172 617 8431

Web: www.publitek.com

E-mail: birgit.schoeniger@publitek.com

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