

Toshiba expands Zener diode portfolio with small package option for overvoltage protection

Adopting SOD-882 (CST2) package provides additional design flexibility for space-constrained industrial and consumer equipment

Düsseldorf, Germany, 5th November 2026 – Toshiba Electronics Europe GmbH ("Toshiba") has expanded its range of protection Zener diodes with the introduction of the CTZ series, a family of 20 devices supplied in a compact SOD-882 (CST2) package. The new series is suitable for a wide range of industrial and consumer equipment, including power supplies, office automation equipment and household appliances.

As industrial and consumer equipment continues to become more compact, designers face the challenge of providing effective overvoltage protection without increasing PCB area. Protection devices must also accommodate a wide range of operating voltages, from low-voltage logic rails through to the 12V and 24V power supplies commonly found in industrial equipment.

Unlike electrostatic discharge (ESD) protection diodes, which are intended primarily for short transient events, protection Zener diodes clamp longer-duration overvoltage conditions with characteristics close to DC.

The CTZ series extends Toshiba's protection diode portfolio with 20 devices offering standard E24 Zener voltages from 5.6V to 36V. This enables designers to select an appropriate clamp voltage for a broad range of power supply and signal line protection applications while providing additional package options for space-constrained designs.

Each device is housed in a compact SOD-882 (CST2) package measuring 1.0mm × 0.6mm × 0.38mm (typ.). Compared with Toshiba's SOD-323 (USC) package, the new package occupies approximately 81% less PCB mounting area, making it well suited to designs where board space is at a premium.

Toshiba continues to expand its range of protection devices, providing designers with a wider choice of solutions for safeguarding electronic equipment against overvoltage events.

More information about the new CTZ series is available on Toshiba's website.

###

About Toshiba Electronics Europe
Toshiba Electronics Europe GmbH (TEE) offers customers across Europe a broad portfolio of semiconductor, storage and battery solutions as well as security and automation systems. Its semiconductor products serve automotive, industrial, IoT, motion control, telecommunications, networking, financial, postal, consumer and white goods applications. The portfolio includes power semiconductors, diodes and other discrete devices, logic ICs, optical semiconductors, microcontrollers and application-specific standard products (ASSPs). TEE also provides hard disk drive (HDD) products, SCiB™ lithium-ion battery cells and modules for demanding heavy-duty applications, and security and automation systems for financial, postal and other social infrastructure applications.

TEE is headquartered in Düsseldorf, Germany, with branch offices in France, Italy, Spain, Sweden and the United Kingdom providing marketing, sales and logistics services. The company also operates the European Analytical Research and Planning Office, the Regenerative Innovation Centre and the New Business Hub, which identifies, incubates and commercialises new business opportunities across Europe.

For further company and product information visit Toshiba's websites at www.toshiba.semicon-storage.com, www.scib.jp/en, www.global.toshiba/ww/products-solutions/security-automation.html and www.toshiba.eu/regenerative-innovation-centre.

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

November 2026 **Ref. 7703(A1)E**