



## Toshiba high-current photorelays achieve UL 508 certification for factory automation applications

*New certification allows designers to achieve UL approval for control equipment*

**Düsseldorf, Germany, 22<sup>nd</sup> May 2019** – Toshiba Electronics Europe GmbH announce that their high-current photorelays are now available with UL 508 certification. All of the nine devices in the series include low on-state resistance MOSFETs based upon Toshiba's U-MOS VIII process that ensure high performance in a wide range of applications.

All devices in the series (TLP3556A, TLP3558A, TLP241A, TLP3543A, TLP3545A, TLP3546A, TLP3547, TLP3548 and TLP3549) are now fully certified to UL 508 and UL1577. These approvals allow designers to easily meet the UL safety requirements for control equipment, including the thermal design margin, thereby easing the sale of such equipment on a global basis.

The devices are intended for use in industrial applications such as PLCs, interfaces and sensor control as well as building automation (primarily heating and ventilation / HVAC). They can also be used for relay replacement in DC systems to 125V and AC systems to 400V, replacing 1-Form-A and other mechanical relays. The Toshiba photorelays provide

an inherently more robust and reliable solution than their mechanical counterparts and, as no driver is required, space, weight and cost are saved.

The series comprises a total of nine devices that are housed in DIP packages with 4, 6 or 8 pins (DIP4, DIP6 or DIP8). All packages have a surface mount option available, including wide-body versions. Devices are able to operate across the industrial temperature range of -40°C to +85°C ambient, while the case temperature can safely rise to 105°C.

The photorelays can handle OFF-state output terminal voltages ( $V_{OFF}$ ) as high as 600V. They offer ON-state resistances ( $R_{ON}$ ) as low as 22mOhm and can handle continuous currents ( $I_{ON}$ ) up to 5A. The pulsed current ( $I_{ONP}$ ) is three times this level, thereby contributing to design safety.

All nine photorelays in the range are fully available in production quantities.

Follow the link below for more information on the new products:

<https://toshiba.semicon-storage.com/eu/product/opto/photorelay.html>

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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. The company's broad portfolio encompasses integrated wireless ICs, power semiconductors, microcontrollers, optical semiconductors, ASICs, ASSPs and discrete devices ranging from diodes to logic ICs.

TEE has headquarters in Düsseldorf, Germany, with branch offices in France, Italy, Spain, Sweden and the United Kingdom providing design, manufacturing, marketing and sales. Company president is Mr. Tomoaki Kumagai

For more company information visit TEE's web site at [www.toshiba.semicon-storage.com](http://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](http://www.toshiba.semicon-storage.com/eu/company/news.html)

E-mail: [discrete-ic@toshiba-components.com](mailto: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](mailto:MShrimpton@teu.toshiba.de)

## Issued by:

Birgit Schöniger, Publitek

Tel: +44 (0) 20 8429 6554

Web: [www.publitek.com](http://www.publitek.com)

E-mail: [birgit.schoeniger@publitek.com](mailto:birgit.schoeniger@publitek.com)

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