



Toshiba releases high-current photorelays for factory automation

Devices also suitable for other industrial applications and can replace mechanical relays

Düsseldorf, Germany, 27th March 2018 – Toshiba Electronics Europe has today started to ship five new high-current photorelays in DIP4 and DIP6 packages. These additions to its portfolio of photorelays incorporate MOSFETs fabricated with the latest U-MOS VIII process.

There are a total of five new photorelays (TLP3543A, TLP3545A, TLP3546A, TLP3556A and TLP3558A). Together they offer multiple options, with an off-state output terminal voltage (V_{OFF}) ranging from 30V to 200V and a steady on-state current (I_{ON}) from 0.7A to 5.0A – which is the industry's highest rating in a DIP6 package. Designed for efficient operation R_{ON} values are as low as 20m Ω for the 30V version. When not in operation, the current draw (I_{OFF}) is max. 1 μ A.

The new photorelays can replace 1-Form-A mechanical relays in various DC and AC applications, contributing to improved system reliability and reducing the space needed for relays and relay drivers. They deliver a rated operating temperature of 110°C (max), making it easier to accommodate temperature margins in system designs.

In addition, the new photorelays provide a rated transient/pulse on-state (I_{ONP}) current three times larger than the rated steady on-state current, contributing to design safety.

Designed primarily for rugged applications, the devices will be used for the replacement of mechanical relays in a wide range of factory automation and other industrial uses including industrial equipment, building automation, HVAC, semiconductor testing, ATE and security.

The latest Gartner market report recognizes Toshiba as the leading manufacturer of optocouplers by sales in 2015 and 2016, with 23% sales-based market share in CY2016. (Source: Gartner, Inc. "Market Share: Semiconductor Devices and Applications Worldwide 2016" 30 March 2017)

Toshiba Electronic Devices & Storage Corporation will continue to deliver products that meet the needs of customers by promoting the development of a diverse portfolio of photocouplers and photorelays tailored to market trends.

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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.

Formed in 1973 in Neuss, Germany, TEE has headquarters in Düsseldorf, Germany, with branch offices in Germany, France, Italy, Spain, Sweden and the United Kingdom providing design, manufacturing, marketing and sales. Company president is Mr. Akira Morinaga.
For more company information visit TEE's web site at www.toshiba.semicon-storage.com.

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March 2018

Ref. 7117/A