



Toshiba announces trio of new high-current photorelays

New devices will replace mechanical 1-Form-A relays in industrial and factory automation applications

Düsseldorf, Germany, 17th February 2020 – Toshiba Electronics Europe GmbH has announced the availability of three new photorelays that are aimed at applications where they will replace mechanical 1-Form-A relays in industrial and factory automation installations.

Based upon the latest U-MOS IX semiconductor process with a trench structure, that reduces on-resistance, allowing the TLP3106A, TLP3107A and TLP3109A to have $R_{ON(max)}$ values of 30m Ω , 40m Ω and 65m Ω respectively. The new photorelays offer a range of options including an OFF-state output terminal voltage (V_{OFF}) between 30 and 100V and a steady ON-state current (I_{ON}) between 3 and 4.5A. Pulsed ON-state current values are in the range 9 to 13.5A.

All three devices offer an isolation voltage ($BV_{S min}$) of 1500Vrms and operate across a temperature range of -40°C to +110°C. They are housed in a small 6-pin SOP surface mount package.

1-Form-A mechanical relays are popular in a variety of DC and AC applications including factory automation (FA), I/O interface boards, heating ventilation and air conditioning (HVAC) equipment, security devices and measurement products. The new photorelays can replace 1-Form-A relays in all of these applications, contributing significantly to reducing the space needed for the relays and relay drivers as well as enhancing system reliability.

Follow the link below for more information on Toshiba's optical devices line-up.

<https://toshiba.semicon-storage.com/eu/product/opto/photocoupler/detail.TLP3106A.html>

<https://toshiba.semicon-storage.com/eu/product/opto/photocoupler/detail.TLP3107A.html>

<https://toshiba.semicon-storage.com/eu/product/opto/photocoupler/detail.TLP3109A.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](#) (Toshiba). 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, 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.

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