



### **Toshiba's New Photorelays with Low Trigger Current Contribute to Low Power Consumption in Battery-Powered Equipment**

Maximum trigger LED current of 1mA and increased sensitivity of the photodiode array

**Düsseldorf, Germany, 24 August 2020** – Toshiba Electronics Europe GmbH (“Toshiba”) has introduced two new photorelays, the TLP170AM and TLP170GM, housed in a small 4-pin SO6 package, for security systems, building automation and other industrial equipment.

The new products feature a low trigger LED current of 1mA, which reduces input side power loss by increasing the sensitivity of the photodiode array. Using these photorelays for ON/OFF control in battery-powered security devices and various sensors, contributes to lower power consumption and longer operating life.

TLP170AM has a rated off-state output terminal voltage ( $V_{off}$ ) of 60V. It features a typ. on-state resistance ( $R_{on}$ ) of  $0.15\Omega$  and constant on-state current ( $I_{on}$ ) of 0.7A, with pulse operation of up to 2.1A. The TLP170GM is a 350V version with a typ.  $R_{on}$  of  $28\Omega$ , and  $I_{on}$  of 110mA constant current and 330mA pulse operation. Both devices have a rated operating temperature between  $-40^{\circ}\text{C}$  and  $85^{\circ}\text{C}$ , to allow for a temperature margin in system-level thermal design.

The 4-pin SO6 package enables a minimum isolation voltage of 3750Vrms, allowing the devices to be used in equipment requiring high insulation performance.

For more information on the new photorelays, please visit:

TLP170AM

<http://toshiba.semicon-storage.com/eu/semiconductor/product/optoelectronics/photorelay-mosfet-output/detail.TLP170AM.html>

TLP170GM

<http://toshiba.semicon-storage.com/eu/semiconductor/product/optoelectronics/photorelay-mosfet-output/detail.TLP170GM.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. The 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).

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