



**Toshiba Introduces Compact Photorelays with Improved Isolation Voltage of 3.75kV**

*4-pin SO6 packages capable of withstanding operating temperatures of up to 110 °C*

**Düsseldorf, Germany, 7<sup>th</sup> November, 2016** – Toshiba Electronics Europe has introduced two new halogen-free <sup>[1]</sup> photorelays, that guarantee minimum isolation voltage of 3750V<sub>rms</sub>. The TLP172AM and TLP172GM are housed in 4-pin SO6 packages that can operate at a maximum temperature of 110°C.

Both products can be used to replace mechanical relays and are suited to designs demanding high-performance switching, electrical isolation and extended temperature operation. Potential applications include factory automation, battery management systems (BMS), telecommunication equipment and the Internet of Things (IoT).

The photorelays utilise multi-chip technology and were developed as high specification, pin-compatible versions of Toshiba's existing 2.54SOP package products, the TLP172A and TLP172G. A double-mould structure improves minimum voltage isolation to 3750V<sub>rms</sub> against the 1500V<sub>rms</sub> of existing products.

[1] Toshiba Corporation Storage & Electronic Devices Solutions Company defines halogen-free and antimony-free products as those meeting all of the following requirements: (a) containing bromine (Br)

and chlorine (Cl) at no more than 900 parts per million (ppm) by weight for each element, and containing bromine and chlorine in an aggregate amount not exceeding 1500 ppm by weight; and (b) containing no more than 1000 ppm antimony (Sb) by weight. For the avoidance of doubt, Halogen-Free/Antimony-Free products may not be entirely free of bromine, chlorine, or antimony, and may contain other element of the halogen family.

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**About Toshiba Electronics Europe**

[Toshiba Electronics Europe](#) (TEE) is the European electronic components business of [Toshiba Corporation](#), which is ranked among the world's largest semiconductor vendors. TEE offers one of the industry's broadest IC and discrete product lines including high-end memory, microcontrollers, ASICs and ASSPs for automotive, multimedia, industrial, telecoms and networking applications. The company also has a wide range of power semiconductor solutions as well as storage products including HDDs, SSDs, SD Cards and USB sticks.

TEE was formed in 1973 in Neuss, Germany, providing design, manufacturing, marketing and sales and now has headquarters in Düsseldorf, Germany, with branch offices in France, Italy, Spain, Sweden and the United Kingdom. TEE employs approximately 300 people in Europe. Company president is Mr. Akira Morinaga.

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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