



## Toshiba Introduces Photorelays with up to 5A Drive Current for Replacing Mechanical Relays in Industrial applications

*New products deliver enhanced reliability and improved safety margins in compact DIP8 packages*

**Düsseldorf, Germany, 18<sup>th</sup> October, 2016** – Toshiba Electronics Europe has introduced three new compact, DIP8 package products to its line-up of photorelays that can replace mechanical relays in industrial applications. The new devices - which include an industry-leading<sup>[1]</sup> 5A large drive current – will suit a variety of applications ranging from heating, ventilation and air conditioning (HVAC) systems to inverters, PLCs and automated test equipment (ATE).

Unlike mechanical relays, photorelays have no physical contacts that are subject to wear and deterioration. This contributes to greater reliability. Use of photorelays also helps support the development of smaller and thinner designs. A guaranteed pulsed ON-state current that is three times greater than that of the continuous ON-state current secures a margin for safety design.

Toshiba's TLP3547 is a 60V product with an industry-leading<sup>[1]</sup> 5A (max.) large drive current. The TLP3548 is a 400V product with a 0.4A (max) drive current that offers high-speed

switching of 1ms (max). The 600V TLP3549 is the industry's first <sup>[2]</sup> photorelay to utilise a super-junction structure 'DTMOS' MOSFET and delivers a 0.6A (max) drive current. All of the new photorelays have a minimum isolation voltage rating of 2500V<sub>rms</sub>.

Notes:

[1] For photorelay products in DIP8 packages, as of July 19, 2016. Toshiba survey.

[2] For photorelay products, as of July 19, 2016. Toshiba survey.

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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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