



Toshiba Expands Line-Up of Photorelays in DIP8 packages

Two new mid-voltage range devices will replace mechanical relays

Düsseldorf, Germany, 07 September, 2017 – Toshiba Electronics Europe today announced the launch of new two mid-voltage, high-current photorelays, the 100V TLP3823 with a 3A drive current, and the 200V TLP3825 with a 1.5A drive current.

The new products will extend the range of high-current photorelays to replace mechanical relays, alongside Toshiba's existing 60V, 5A TLP3547. Toshiba is supporting and promoting the accelerated replacement of mechanical relays by applying its latest trench MOSFET structure, 8th generation UMOS, to realize output currents exceeding 1A.

Unlike mechanical relays, photorelays have no physical contacts that incur wear and tear, thus contributing to significantly increased reliability. Photorelays are much smaller, thereby supporting the development of smaller and thinner products.

The new photorelays will be used in diverse applications including industrial equipment, inverters, HVAC equipment, building automation and semiconductor and other test equipment. In almost all cases they will be replacing mechanical relays.

Both devices offer an isolation voltage of 2500 Vrms and low values of on-resistance (TLP3823 60mΩ typ., TLP3825 250mΩ typ.) to ensure efficient operation. The rapid turn-on and turn-off times allow the photorelays to be used in fast switching applications. The required triggering current is below 5mA for both devices and, when off, the devices have a leakage current of less than 1μA.

Toshiba's new devices offer a guaranteed pulsed ON-state current that is three times larger than the continuous ON-state current, thus securing a bigger margin for safety design.

Mass production shipments of both the TLP3823 and TLP3825 has begun.

Notes:

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

Toshiba 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](#) (TEE) is the European electronic components business of [Toshiba Electronic Devices and Storage Corporation](#). TEE offers a broad IC and discrete product line 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.

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