



Toshiba Launches Industry-Leading 50Mbps Photocouplers for High-speed Communications

Line-up includes a component with creepage and clearance distance of 8mm and an isolation thickness of 0.4mm for reinforced isolation

Düsseldorf, Germany, 27th October, 2016 – Toshiba Electronics Europe has announced the launch of two new industry-leading^[1] photocouplers, TLP2767 and TLP2367, for high-speed communications at data rates up to 50Mbps.

TLP2767 is the first 50Mbps product in the industry^[1] to achieve both a creepage and clearance distance of 8mm and isolation thickness of 0.4mm for reinforced isolation. It is housed in an SO6L package and guarantees isolation voltage of 5000V_{rms} (min). TLP2367 is housed in a 5pin small SO6 package, guaranteeing creepage and clearance distance of 5mm (min) and isolation voltage of 3750V_{rms} (min.). Both packages are 2.3mm (max) low height packages and meet international safety standards including UL1577 and EN60747-5-5.

The new photocouplers guarantee a propagation delay time of 20ns (max), pulse width distortion of 8ns (max) and propagation delay skew of 10ns (max). They can be used to reduce the dead time of various interfaces including inverters, which can contribute to improving the power efficiency of systems.

TLP2767 and TLP2367 utilize on the input side Toshiba's original high output infrared LEDs achieving high output power. This reduces the threshold input current by approximately 20%, compared with Toshiba's older TLP117 product. On the output side, a photo detector IC fabricated with a CMOS process reduces the supply current by approximately 50%, compared with Toshiba's TLP117. Both photocoupler can contribute to lowering the operation voltage of systems with guaranteed supply voltage of 2.7V to 5.5V, at temperatures up to 125 degrees Celsius. Applications include programmable logic controllers (PLC), I/O interface, photovoltaic (PV) inverters and FA inverters.

The TLP2767 and TLP2367 are available now.

Notes:

[1] In the category of photocouplers, as of August 29, 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.

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