



Toshiba Launches Smart Gate Driver Photocoupler

New device includes improved desaturation sensing function

Düsseldorf, Germany, 23 August 2017 – Toshiba Electronics Europe today announced the launch of a new smart gate driver photocoupler (TLP5214A) for driving medium power IGBTs and power MOSFETs. The TLP5214A is intended for multiple applications where MOSFETs and IGBTs are used including industrial inverters, solar energy inverters, air conditioner inverters and servo amplifiers.

The TLP5214A integrates such features as desaturation leading edge blanking time, filtering time, and optimization of soft turn-off performance. These contribute to secure execution of applications by suppressing short-time pulse noise during switching and desaturation sensing.

Improving on the performance of the TLP5214, the new device boasts a DESAT leading edge blanking time of 1.1µs (typ.) and a DESAT filter time of 90ns (typ.). The soft turn-off time of 7µs is double that of its predecessor.

The TLP5214A operates from a 15 to 30V supply and is able to deliver a peak output current of ±4.0A (Max.). The short propagation delay of 150ns (with ±80ns skew) supports use in high-speed applications. TLP5214A is housed in a SO16L package with a maximum height of

2.3mm, which meets the requirements of all major safety standards. Its isolation voltage is 5000Vrms and the minimum creepage / clearance distances is 8.0mm.

The TLP5214A is already shipping in mass production quantities.

Notes:

The latest Gartner market report recognizes Toshiba as the leading manufacturer of optocouplers by sales in 2015 and 2016, with 23% of 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.

###

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.

Contact details for publication:

Toshiba Electronics Europe GmbH, Hansaallee 181, D-40549 Düsseldorf, Germany

Tel: +49 (0) 211 5296 0 Fax: +49 (0) 211 5296 79197

Web: www.toshiba.semicon-storage.com/eu/company/news.html

E-mail: discrete-ic@toshiba-components.com

Contact details for editorial enquiries:

Michelle Shrimpton, Toshiba Electronics Europe GmbH

Tel: +44 (0)193 282 2832

E-mail: MShrimpton@teu.toshiba.de

Issued by:

Birgit Schöniger, Publitek

Tel: +44 (0) 20 8429 6554

Web: www.publitek.com

E-mail: birgit.schoeniger@publitek.com

August 2017

Ref. 7042/A