



New automotive photocopler offers highest collector-emitter voltage of 200V

The automotive qualified device is suitable for many HEV / BEV applications including battery monitoring

Düsseldorf, Germany, 07th December 2021 – Toshiba Electronics Europe GmbH ("Toshiba") announces a new high voltage transistor output automotive photocopler that is intended for a wide range of applications including isolated signal communication in automotive equipment such as hybrid electric vehicles (HEV) and battery electric vehicles (BEV).

The new TLX9188 can be operated with a collector-emitter voltage (V_{CEO}) of 200V (min.) - the highest ever produced by Toshiba in an automotive photocopler and 2.5 times higher than the current device – the TLX9185A. The device offers a current transfer ratio (I_C/I_F) of up to 600% and an input-to-output isolation voltage of 3750Vrms (min.).

The TLX9188 is housed in a very small and thin 4-pin SO6 package measuring just 3.7mm x 7.0mm x 2.1mm, suitable for modern, densely packaged designs. It is capable of operating across a wide temperature range from -40 to +125°C and is fully qualified according to AEC-Q101 for automotive applications.

The ability to operate at high voltages makes the TLX9188 suitable for use in battery management systems in HEV / BEV where it can be used to monitor voltages, monitor for mechanical relays sticking and detect ground faults among other.

Volume shipments of the new device starts today.

To access the datasheet and further information for the new TLX9188, please visit:

<https://toshiba.semicon-storage.com/eu/semiconductor/product/isolators-solid-state-relays/detail.TLX9188.html>

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About Toshiba Electronics Europe

[Toshiba Electronics Europe GmbH](#) (TEE) is the European electronic components business of [Toshiba Electronic Devices and Storage Corporation](#). TEE offers European consumers and businesses a wide variety of innovative hard disk drive (HDD) products plus semiconductor solutions for automotive, industrial, IoT, motion control, telecoms, networking, consumer and white goods applications. Next to HDDs, the company's broad portfolio encompasses power semiconductors and other discrete devices ranging from diodes to logic ICs, optical semiconductors as well as microcontrollers and application specific standard products (ASSPs) amongst others.

TEE has headquarters in Düsseldorf, Germany, with branch offices in France, Italy, Spain, Sweden and the United Kingdom providing marketing, sales and logistics services. The company president is Mr. Tomoaki Kumagai.

For more company information visit TEE's web site at www.toshiba.semicon-storage.com.

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