



## PCIM Europe 2018, Nuremberg – Hall 9 – Stand 301

### Toshiba releases automotive 40V N-Channel power MOSFETs in 5mm x 6mm package

*Reduced on-resistance resulting from the use of a new, small, low-resistance package*

**Düsseldorf, Germany, 02 May 2018** – Toshiba Electronics Europe (“Toshiba”) has released two new MOSFETs housed in the small low-resistance SOP Advance (WF) package in 5mm x 6mm size, as new additions to the automotive 40V N-channel power MOSFET series. The TPHR7904PB and TPH1R104PB are AEC-Q101 qualified and are intended for a variety of automotive applications including Electric Power Steering (EPS), load switches, electric pumps, fans and more.

Fabricated using the latest ninth generation trench U-MOS IX-H process and housed in a small low-resistance package, the new MOSFETs provide on-resistance ( $R_{DS(ON)}$ ) as low as max 0.79mΩ at  $V_{GS}=10V$ , thereby reducing conduction losses. The devices specified with a Drain-Source voltage ( $V_{DSS}$ ) of 40V and can handle drain currents ( $I_D$ ) up to 150 A DC. The U-MOS IX-H design also lowers switching noise, helping to reduce electromagnetic interference (EMI).

The SOP Advance (WF) package employs a wettable flank terminal structure, which enables automated visual inspection of solder joints on printed circuit boards, a key requirement for automotive quality compliance.

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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. The company's broad portfolio encompasses integrated wireless ICs, power semiconductors, microcontrollers, optical semiconductors, ASICs, ASSPs and discrete devices ranging from diodes to logic ICs.

Formed in 1973 in Neuss, Germany, TEE has headquarters in Düsseldorf, Germany, with branch offices in Germany, France, Italy, Spain, Sweden and the United Kingdom providing design, manufacturing, marketing and sales. 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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