



Toshiba announces new 100 V N-channel MOSFETs for automotive applications

New highly efficient devices in SOP Advance (WF) package for the first time

Düsseldorf, Germany, 16th December 2019 – Toshiba Electronics Europe GmbH has launched their very first 100 V N-channel power MOSFETs for automotive applications that are available in the small surface mount SOP Advance (WF) package. Designed specifically for modern 48 V system applications, the devices are suited to use in boost converters for integrated starter generators (ISG) and LED headlights as well as motor drives, switching regulators and load switches.

The XPH4R10ANB and XPH6R30ANB devices improve the efficiency of automotive systems due to their low on-resistance ($R_{DS(ON)}$). In fact, the XPH4R10ANB offers an industry-leading on resistance of just 4.1 mΩ, significantly reducing system losses. Both devices are housed in the SOP Advance(WF) package that features wettable flanks. This small package was proven in 48 V automotive applications and allows the use of automated optical inspection (AOI) to ensure the quality of solder joints.

Both devices are part of Toshiba's U-MOSVIII-H series and offer a drain-source voltage (V_{DSS}) of 100 V and max operating temperature of 175°C. The XPH4R10ANB supports a maximum continuous drain current of 70 A and 210 A when pulsed. The figures for the XPH6R30ANB are 45 A and 135 A respectively.

Both devices are now in mass production and are shipping in production quantities.

Follow the links below for more information on Toshiba's automotive MOSFET line-up.

<https://toshiba.semicon-storage.com/eu/product/mosfet/detail.XPH4R10ANB.html>

<https://toshiba.semicon-storage.com/eu/product/mosfet/detail.XPH6R30ANB.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](#) (Toshiba). 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, ASSPs and discrete devices ranging from diodes to logic ICs.

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