



Toshiba releases 100V N-channel power MOSFETs for industrial applications

Additional U-MOS IX-H devices offer lowest-in-class on-resistance

Düsseldorf, Germany, 07 February 2018 – Toshiba Electronics Europe has started to ship two new 100V additions to its low-voltage U-MOS IX-H N-channel power MOSFET series. The new devices are ideally suited to power supply applications in industrial equipment as well as motor control applications.

Fabricated with Toshiba's latest low-voltage U-MOS IX-H trench process, which optimizes the element structure, the TPH3R70APL and TPN1200APL deliver the industry's lowest-in-class on-resistance of 3.7mΩ and 11.5mΩ respectively. The devices exhibit low output charge (Q_{oss} : 74 / 24nC) and low gate switch charge (Q_{sw} : 21 / 7.5nC) and allows for a 4.5V logic level drive.

Compared with current devices that the U-MOS VIII-H process, the new devices have lower key figures of merit for MOSFETs for switching applications including $R_{DS(ON)} \cdot Q_{oss}$, and $R_{DS(ON)} \cdot Q_{sw}$.

The TPH3R70APL is housed in a 5mm x 6mm SOP advance package and can handle drain currents (I_D) up to 90A while the TPN1200APL is in a 3mm x 3mm TSON advance package and handles I_D levels up to 40A.

Toshiba Electronics Europe will continue to expand its MOSFET portfolio in line with market trends in order to continue to improve power supply efficiency.

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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.

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