



Toshiba Launches 40V and 60V MOSFETs Based on Latest Generation of Trench Process

40V and 60V U-MOS-IX-H series in DPAK package offer extremely low $R_{DS(ON)}$ down to 3.1m Ω

Düsseldorf, Germany, 16 October, 2017 – Toshiba Electronics Europe has announced new 40V and 60V power MOSFETs based on the company's latest generation U-MOS-IX-H trench semiconductor process.

The TK3R1P04PL, TK4R4P06PL and TK6R7P06PL N-channel MOSFETs can be driven by 4.5V logic levels and offer ultra-low maximum on resistance ($R_{DS(ON)}$) ratings down to just 3.1m Ω (@ $V_{GS} = 10V$). Supplied in compact DPAK packaging, the devices are ideal for high-efficiency power conversion applications including AC-DC and DC-DC converters, power supplies and motor drives.

The TK3R1P04PL is a 40V MOSFET with a maximum $R_{DS(ON)}$ of 3.1m Ω and a maximum drain current (I_D) rating of 58A (at a temperature of 25°C). The 60V TK4R4P06PL and TK6R7P06PL have respective maximum $R_{DS(ON)}$ and I_D ratings of 4.4m Ω and 58A and 6.7m Ω and 46A.

All of the new MOSFETs are designed to operate with a low output charge to further optimise efficiency and performance.

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Press Release

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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.

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