



Toshiba releases small MOSFET with excellent ESD protection

Efficient dual device is ideal for automotive headlight applications

Düsseldorf, Germany, 19th February 2019 – Toshiba Electronics Europe GmbH (TEE) has released a dual MOSFET with high levels of ESD protection. The new SSM6N813R is intended for use in rugged automotive applications, including use as a driver IC for headlight LEDs, which require a high withstand voltage and a small footprint.

A maximum drain-source voltage (V_{DS}) of 100V ensures that the SSM6N813R is suitable for headlight applications requiring multiple LEDs, a capability supported by the device's high levels ESD immunity. Fabricated using the latest process, the SSM6N813R has a maximum power dissipation of 1.5W and offers efficient operation through low on-resistance ($R_{DS(ON)}$) of just 112m Ω . The devices can support drain currents (I_D) up to 3.5A.

The dual MOSFETs are packaged in a tiny TSOP6F package that measures just 2.9mm x 2.8mm x 0.8mm, the same size as a SOT23 package and giving a footprint that is 70% smaller than that of an SOP8 package.

The device is in mass production.

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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.

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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