



Compact Low On-Resistance MOSFET Devices from Toshiba Significantly Enhance Battery Pack Operation

Targeted at use in the Li-Ion battery packs of portable consumer hardware

Düsseldorf, Germany, 29th October 2020 – Toshiba Electronics Europe GmbH (“Toshiba”) has further expanded its comprehensive portfolio of power saving N-channel MOSFETs with the introduction of the SSM6N951L. Leveraging the company’s advanced power semiconductor process expertise and cutting-edge IP, this 12V-rated common-drain device exhibits numerous industry-leading operational performance parameters.

The SSM6N951L is specifically intended for inclusion in the battery protection circuitry incorporated into the Li-Ion battery packs. Its ultra-low on-resistance (4.6mΩ maximum at a V_{GS} of 3.8V) and minimal gate-source leakage current (1μA maximum at a V_{GS} of 8V) mean that this power discrete device presents much lower thermal characteristics than those of the competition. This is of real value during the battery packs’ charge/discharge cycles, allowing higher density solutions to be developed that support quicker charge rates, as well as having much greater reliability and a longer operational lifespan too.

These new MOSFETs are shipped in low-profile TCSP6A-172101 format packages (with dimensions of 2.14mm x 1.67mm x 0.11mm). As a result, they are optimised for implementation in modern space-limited battery powered equipment.

For more information, please visit:

<https://toshiba.semicon-storage.com/eu/semiconductor/product/mosfets/detail.SSM6N951L.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. Next to HDDs, the company's broad portfolio encompasses power semiconductors and other discrete devices ranging from diodes to logic ICs, optical semiconductors as well as microcontrollers and application specific standard products (ASSPs) amongst others.

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