

PRESS RELEASETRX058 February 4th, 2010**XC6223 Series
Ultra-Small 1 mm² High-Speed LDO Regulators with 300mA Output**

TOREX SEMICONDUCTOR LTD. (Chuo-Ku, Tokyo: President, Tomoyuki Fujisaka) has developed the XC6223 series of ultra-small 1mm² high-speed LDO regulators with 300mA output.

The XC6223 Series of high-speed LDO regulators includes an in-rush current prevention function and can support output currents of up to 300mA. The new series also has a high output voltage accuracy of $\pm 1\%$ (2.0V to 4.0V) and $\pm 20\text{mV}$ (1.2V to 1.95V), and a high ripple rejection of 80dB@f=1kHz. The output voltage is fixed internally and is selectable within a range of 1.2V to 4.0V (0.05V steps). Load-transient response performance has been improved to dramatically reduce drops in output voltage due to sudden load changes. Protection circuits are included to provide current limitation, short-circuit protection, overheating protection, and in-rush current protection.

For the package, the SSOT-24, SOT-25, SOT-89-5, or USPQ-4B03 can be selected to fit the application. The ultra-small USPQ-4B03 (1.0mm x 1.0mm x h0.4mm) has a smaller mounting area than previous packages and is ideal for portable products and modules that require a compact design. It also contributes to higher operational reliability in devices that have severe voltage changes.

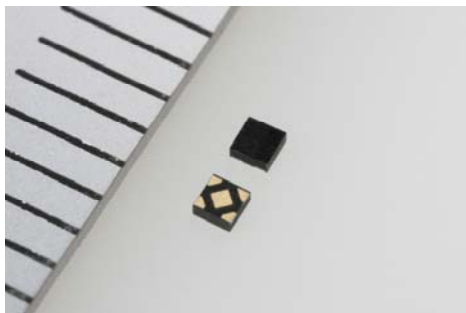
【XC6223 Series Features】

Includes a current limiter circuit (400mA), short-circuit protection, a thermal shutdown circuit, and an in-rush current protection circuit.

High output voltage accuracy of $\pm 1\%$ (2.0V to 4.0V) and $\pm 20\text{mV}$ (1.2V to 1.95V)

High ripple rejection of 80dB@f=1kHz and a low quiescent current of 100 μA .

The ultra-small USPQ-4B03 package (1.0mm x 1.0mm x h 0.4mm) contributes to space-saving design.



▲USPQ-4B03 (1.0mm x 1.0mm x h0.4mm)

Torex Semiconductor Ltd. is a leading provider of CMOS power management ICs targeted toward battery powered and energy efficient applications. Torex specializes in CMOS analog technology, with LDO voltage regulators, voltage detectors and DC/DC converters making up our core product offering.

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