

## PRESS RELEASE

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## XC6408 Series 28V Voltage Regulators with Voltage Detection Function

TOREX SEMICONDUCTOR LTD. (Chuo-Ku, Tokyo: President, Tomoyuki Fujisaka) has developed the XC6408 series of 28V voltage regulators with voltage detection function.

The XC6408 series of high-speed, low quiescent current regulators has a voltage detection function and a 28V input voltage. Two types are available. The XC6408D monitors the output voltage of the regulator, and when the output voltage falls below the set level, outputs a reset signal from the  $V_{DOUT}$  pin. The reset time (release delay time) can be set with an external capacitor. The XC6408E monitors any external voltage, and when voltage detection occurs, turns off the regulator output, enabling the regulator to be put in standby mode. Even with an input voltage of 28V, non-load quiescent current is only  $8\mu A$  on the XC6408E and  $9.5\mu A$  on the XC6408D thanks to the CMOS process.

The regulator includes internal over-current and over-heating protection circuits. When the output current reaches the current limit or the junction temperature reaches the temperature limit, the corresponding circuit activates to protect the IC. A variety of package sizes are available, including the SOT-89-5, SOT-25, and USP-6C, allowing selection to match a wide range of applications from portable devices to household electrical appliances and car navigation.

### 【XC6408 Series Features】

28V voltage regulator

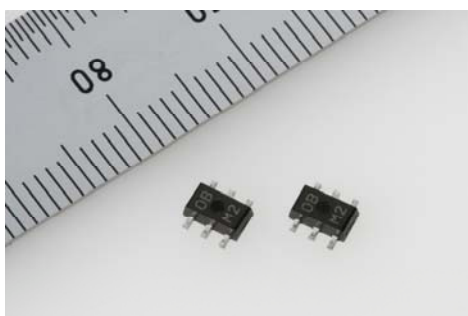
Standard Fixed output voltages: 2.5V, 3.0V, 3.3V, 5V, 8V, 9V, 12V

Outputs an output voltage status signal by error flag (XC6408D)

External voltage monitoring pin (XC6408E)

Low quiescent current:  $9.5\mu A$  typical on the XC6408D series ( $V_{ROUT}=12V$ ,  $V_{DOUT}=11V$ ),  $8\mu A$  typical on the XC6408E series ( $V_{ROUT}=12V$ )

Supports a wide range of applications including household electrical appliances and car navigation



▲SOT-89-5 (4.35mm x 4.5mm x h1.5mm)

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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