

PRESS RELEASE

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XC6701 Series High Speed, low Power Consumption 28V input Voltage Regulators with ON/OFF Control

TOREX SEMICONDUCTOR LTD. (Chuo-Ku, Tokyo : President, Tomoyuki Fujisaka) announces the release of the XC6701 series of high speed, low power consumption 28V input voltage regulators with ON/OFF control.

The XC6701 Series is a CMOS high-speed, low current consumption regulator with a rated input voltage of 28V. High ripple rejection rate and high accuracy are realized with little current consumption. The regulator is turned off and placed into the standby state by the ON/OFF function, thus substantially reducing the current consumption and contributing to prolonging the life of the battery.

An overcurrent protection circuit and a thermal protection circuit are built-in. When the output current reaches the limit current or the junction temperature reaches the limit temperature, these circuits operate to protect the IC.

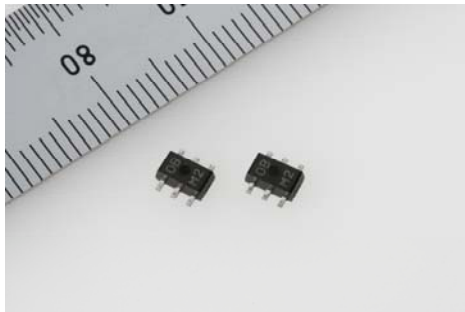
The package can be selected from SOT-25, SOT-89, SOT-89-5, USP-6C, SOT-223, and TO-252 to meet the application.

Packages of various sizes are adopted, and used in a wide range of applications, from portable devices to electrical home appliances and car navigation systems.

【XC6701 Features】

- ON/OFF function realizes low current consumption.
- High Ripple rejection rate realized with the comparison to Torex conventional series.
- Output voltage selection range extended 1.8V to 18.0V.
 - Compatible with low ESR capacitor
 - Overcurrent protection circuit and thermal protection circuit are built-in.
- Applicable to a broad range of applications such as electric home appliances and car navigation systems.

Max Output Current	: More than 150mA (200mA limit) ($V_{IN}=V_{OUT}+3.0V$)
Dropout Voltage	: 300mV@ $I_{OUT}=20mA$
Input Voltage Range	: 2.0V~28.0V
Output Voltage Range	: 1.8V~18.0V (0.1V increments)
High Accuracy	: $\pm 2\%$
Low Power Consumption	: 50 μA ($V_{OUT}=5.0V$)
Stand-by Current	: Less than 0.1 μA
High Ripple Rejection	: 50dB@1kHz
Operating Temperature	: -40°C~+85°C
Low ESR Capacitor	: Ceramic Capacitor Compatible (Internal Phase Compensation)
Packages	: SOT-25, SOT-89, SOT-89-5, USP-6C, SOT-223, TO-252



▲SOT-89-5

[Company Outline]

Name : TOREX SEMICONDUCTOR LTD.
 Found : 1995
 Capital : 984.78 million JPY
 President : Tomoyuki Fujisaka
 Employees : 213 (as of April 1, 2007)
 Operations : Manufacturing of ICs and active discrete components.
 Sales of ICs and active discrete components.

<http://www.torex.co.jp/english/>

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