

PRESS RELEASE

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

TRX032 January 29, 2008

**XC8101 Series
High Side Line Switch with Low Supply Current**

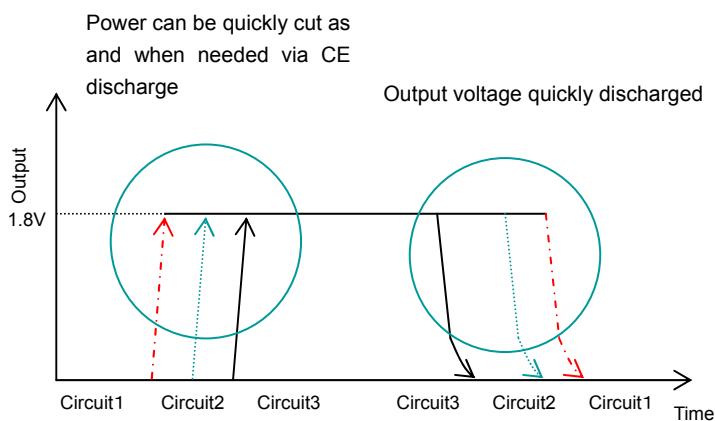
Torex Semiconductor Ltd. (Chuo-Ku, Tokyo : President, Tomoyuki Fujisaka) announces the release of the XC8101 Series of High Side Line Switch with Low Supply Current.

The XC8101 series is a low supply current line switch IC with ON/OFF control and output current protection which integrates P-channel MOSFET. The XC8101 is suited for power distribution switch. With connecting to the output pin of step-down DC/DC converters, the CE pin controls ON/OFF for each distribution switch to deliver power per requirements and maximize total power efficiency. As result, the XC8101 helps extend battery life and product operation time. The XC8101 is available in an ultra small package USP-4 and does not require any external capacitors so that it can provide small power unit design and board space saving. When low signal is input to the CE pin, the XC8101 enters stand-by mode. Even where a load capacitor is connected to the output pin during in the stand-by mode, the internal switch between the V_{OUT} and V_{SS} of the XC8101 enables the electric charge in the load capacitor to be discharged. Because of this discharge function, the V_{OUT} pin voltage falls quickly to V_{SS} level.

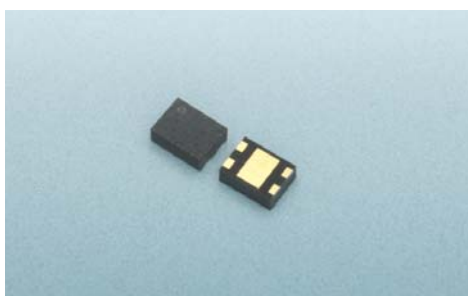
The XC8101 contains an over current protection with foldback current circuitry which operates as over current protection and short circuit protection for the output pin.

【XC8101 Features】

- Suitable as a small power switch for portable devices - 200mA I_{OUT}
- Ability to turn off power quickly via C_L discharge circuit
- Extends battery life
- Space saving possible with ultra small USP-4 package which takes up minimal board space



On Resistance : 0.75Ω@ V_{IN}=2.9V (TYP.)
Output Current : 200mA <Current Limit =300mA (TYP.)>
Input Voltage Range : 1.8V~6.0V
Power Consumption : 3.0 μ A@ V_{IN}=1.8V
Stand-by Current : 0.1 μ A
Protection Circuit : Current limit, 300mA (TYP.)
: Short-circuit Protection,
Short current= 30mA (TYP.)
ON/OFF Function : High Active Enable
High-Speed Discharge Function
Operating Temperature Range : -40 ~ 85
Packages : USP-4, SSOT-24, SOT-25



▲USP-4(1.2 x 1.6 x 0.6mm)

[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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