

## PRESS RELEASE

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## **XC6121/XC6122/XC6123/XC6124 Series Voltage Detector with Watchdog Function and ON/OFF Control**

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Torex Semiconductor Ltd. (Chuo-Ku, Tokyo : President, Tomoyuki Fujisaka) announces the release of the XC6121/6122/6123/6124 series of voltage detectors with Watchdog function and ON/OFF control.

The XC6121/XC6122/XC6123/XC6124 series are highly accurate, low power consumption CMOS voltage detectors with a watchdog function and ON/OFF control.

As the watchdog timeout period & release delay period is internally set the time can be fixed and it is possible to have a system monitor without the need for external components.

By making use of the newly added EN/ENB pin the watchdog function can be turned OFF allowing the series to be used as a simple voltage detector.

With the XC6122/XC6124 series, since the EN/ENB pin is internally pulled up to VIN or pulled down to VSS, it is possible to use the watchdog function even when the pin is OPEN.

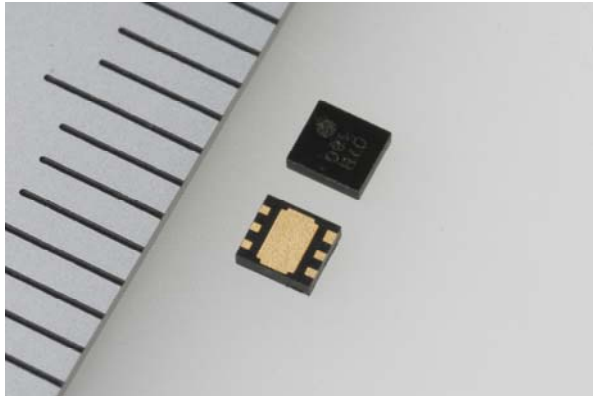
Detect voltage is fixed within a range of 1.6V~5.0V, selectable in 0.1V increments.

### **【XC6121/XC6122/XC6123/XC6124 Features】**

- New ON/OFF switch function added which wasn't previously available on existing Torex watchdog products
- Watchdog timeout period & release delay period internally set
- Space saving ultra small USP-6C package

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|---|---|
| <b>Detect Voltage Range</b>                       | : 1.6V~5.0V (0.1V increments)                   |
| <b>Hysteresis Width</b>                           | : VDFLx5%(TYP.)                                 |
| <b>Operating Voltage Range</b>                    | : 1.0V~6.0V                                     |
| <b>Detect Voltage Temperature Characteristics</b> | : ±100ppm / °C(TYP.)                            |
| <b>Output Configuration</b>                       | : Nch open drain                                |
| <b>Watchdog Pin</b>                               | : Monitors CPU                                  |
| <b>EN/ENB Pin</b>                                 | : Enables watchdog function                     |
| <b>Release Delay Time</b>                         | : 3.13ms, 50ms, 100ms, 200ms, 400ms (TYP.)      |
| <b>Watchdog Timeout Period</b>                    | : 50ms, 100ms, 200ms, 400ms, 800ms, 1.6s (TYP.) |
| <b>Package</b>                                    | : USP-6C, SOT-25                                |

\*XC6121/XC6122 Series are under development.



▲USP-6C(1.8 x 2.0 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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