

PRESS RELEASE

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World's Smallest Class 0603 Size Ultra-Small Schottky Barrier Diodes

TOREX SEMICONDUCTOR LTD. (Tokyo Japan: President, Tomoyuki Fujisaka) has developed the world's smallest class 0603 size ultra-small schottky barrier diodes.

Targeting the portable device market, which is seeing an advance in miniaturization and ever thinner products, TOREX SEMICONDUCTOR has developed two Schottky barrier diode products that are the world's smallest class. The XBS013V1DR-G and XBS013R1DR-G are ultra-small USP-2B01 (0.6 x 0.3 x h0.3mm) Schottky barrier diodes. The ultra-small package contributes to a reduction in mounting area and space saving. Applications include low-power circuits in portable devices. The XBS013R1DR-G has minimal reverse leakage current ($0.3 \mu\text{A} @ V_R=10 \text{V}$), making it ideal for input protection on various types of amplifiers. Both series achieve a low V_F (XBS013V1DR-G: $V_F=0.37\text{V}@I_F=10\text{mA}$, XBS013R1DR-G: $V_F=0.46\text{V}@I_F=10\text{mA}$), support high-density mounting, and contribute to energy saving.

TOREX Schottky barrier diodes also comply with the RoHS directive of the EU and are Pb free, for reduced environmental impact. We will continue to enhance our Schottky barrier diode product lineup, creating products that meet market needs.

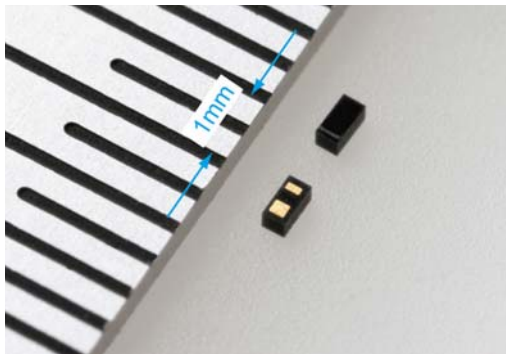
【XBS013V1DR-G, XBS013R1DR-G Features】

World's smallest class 0603 size ultra-small package

Ideal for low-current power circuits

Achieves low V_F and low I_R .

Complies with the EU RoHS directive and is Pb free.



▲ USP-2B01 (0.6 x 0.3 x h0.3mm)

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.

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

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