

# XBP1010

TVS Diode

ETR29009-003

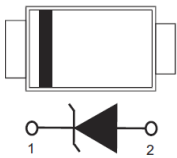
## FEATURES

Terminal Capacitance	: 35pF
ESD Protection	: 8kV Contact (IEC61000-4-2)
Environmentally Friendly	: EU RoHS Compliant, Pb Free

## APPLICATIONS

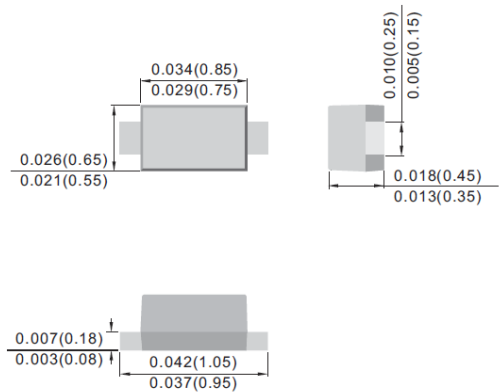
- ESD Protection

## PIN CONFIGURATION



## PACKAGING INFORMATION

- SOD-923 Unit: inch (mm)



## PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT
XBP1010-G *	SOD-923	8,000 / Reel

\* The "-G" suffix denotes Halogen and Antimony free as well as being fully RoHS compliant.

## ABSOLUTE MAXIMUM RATINGS

Ta=25°C

PARAMETER	SYMBOL	RATINGS	UNITS
Peak Pulse Power (8/20 $\mu$ s Waveform)	Ppk	40	W
Peak Pulse Current (8/20 $\mu$ s Waveform)	Ipp	5	A
Junction Temperature	Tj	-55 to 150	°C
Storage Temperature	Tstg	-55 to 150	°C

## ■ ELECTRICAL CHARACTERISTICS

Ta=25°C

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS
Stand-Off Voltage	$V_{RWM}$		-	-	5	V
Breakdown Voltage	$V_{BR}$	$I_R=1mA$	6.2	-	-	V
Leakage Current	$I_R$	$V_R=5V$	-	-	1.0	$\mu A$
Clamping Voltage (8/20 $\mu s$ )	$V_C$	$I_{PP}=5A$	-	-	12	V
Terminal Capacitance	$C_t$	$V_R=0V, f=1MHz$	-	-	35	pF

## ■ NOTES ON USE

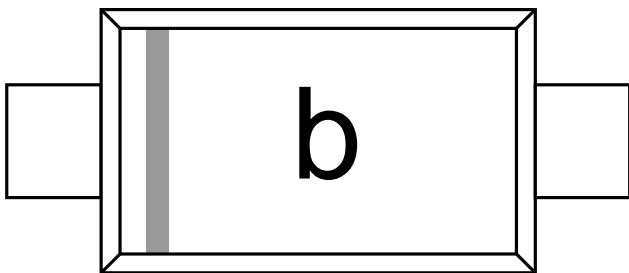
1. Please use this IC within the absolute maximum ratings.

Even within the ratings, in case of high load use continuously such as high temperature, high voltage, high current and thermal stress may cause reliability degradation of the IC.

2. Torex places an importance on improving our products and their reliability.

We request that users incorporate fail-safe designs and post-aging protection treatment when using Torex products in their systems.

## ■ MARKING



## ■ PACKAGING INFORMATION

For the latest package information go to, [www.torexsemi.com/technical-support/packages](http://www.torexsemi.com/technical-support/packages)

PACKAGE	OUTLINE / LAND PATTERN	THERMAL CHARACTERISTICS
SOD-923	<a href="#">SOD-923 PKG</a>	

1. The product and product specifications contained herein are subject to change without notice to improve performance characteristics. Consult us, or our representatives before use, to confirm that the information in this datasheet is up to date.
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5. Although we make continuous efforts to improve the quality and reliability of our products; nevertheless Semiconductors are likely to fail with a certain probability. So in order to prevent personal injury and/or property damage resulting from such failure, customers are required to incorporate adequate safety measures in their designs, such as system fail safes, redundancy and fire prevention features.
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7. Please use the product listed in this datasheet within the specified ranges.
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