

XBP1012

TVS Diode

ETR29011-003

FEATURES

Bi-directional, One Line

Terminal Capacitance : 100pF

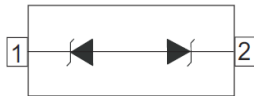
ESD Protection : 8kV Contact (IEC61000-4-2)

Environmentally Friendly : EU RoHS Compliant, Pb Free

APPLICATIONS

● Portable equipment

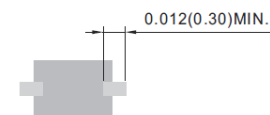
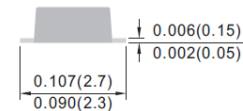
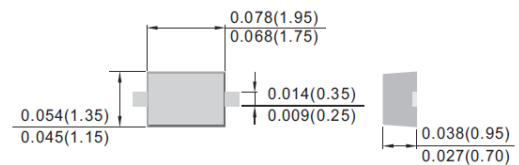
PIN CONFIGURATION



PACKAGING INFORMATION

● SOD-323P

Unit: inch (mm)



PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT
XBP1012-G *	SOD-323P	5,000 / 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 μ s Waveform)	Ppk	350	W
Junction Temperature	Tj	-55 to 125	°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}		-	-	12	V
Breakdown Voltage	V _{BR}	I _R =1mA	13.3	-	14.7	V
Leakage Current	I _R	V _R =12V	-	-	1	μA
Clamping Voltage (8/20 μs)	V _C	I _{PP} =5A	-	-	19	V
Clamping Voltage (8/20 μs)	V _C	I _{PP} =15A	-	-	24	V
Terminal Capacitance	C _t	V _R =0V, f=1MHz	-	-	100	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.

■ PACKAGING INFORMATION

For the latest package information go to, www.torexsemi.com/technical-support/packages

PACKAGE	OUTLINE / LAND PATTERN	THERMAL CHARACTERISTICS
SOD-323P	SOD-323P PKG	

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.
2. The information in this datasheet is intended to illustrate the operation and characteristics of our products. We neither make warranties or representations with respect to the accuracy or completeness of the information contained in this datasheet nor grant any license to any intellectual property rights of ours or any third party concerning with the information in this datasheet.
3. Applicable export control laws and regulations should be complied and the procedures required by such laws and regulations should also be followed, when the product or any information contained in this datasheet is exported.
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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.
6. Our products are not designed to be Radiation-resistant.
7. Please use the product listed in this datasheet within the specified ranges.
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