TVS Diode

■FEATURES

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

■ PIN CONFIGURATION



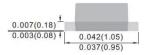
■ PACKAGING INFORMATION

●SOD-923

Unit: inch (mm)

ETR29009-001





■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 μ s Waveform)	Ppk	40	W
Peak Pulse Current (8/20 μ s Waveform)	lpp	5	А
Junction Temperature	Tj	-55 to 150	°C
Storage Temperature	Tstg	-55 to 150	°C

XBP1010

■ELECTRICAL CHARACTERISTICS

LIMITS SYMBOL UNITS PARAMETER **TEST CONDITIONS** MIN. TYP. MAX. Stand-Off Voltage V_{RWM} ٧ _ 5 ٧ Breakdown Voltage V_{BR} I_R=1mA 6.2 _ _ Leakage Current I_{R} $V_R=5V$ _ _ 1.0 μA ٧ Clamping Voltage (8/20 μ s) V_{C} $I_{PP}=5A$ _ 12 _ **Terminal Capacitance** C_t V_R=0V, f=1MHz 35 pF --

Ta=25°C

■NOTES ON USE

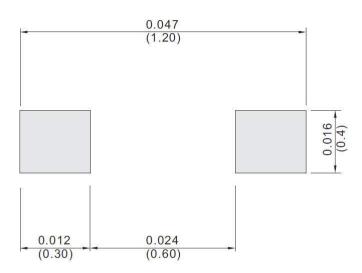
1. Please use this IC within the absolute maximum ratings.

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.

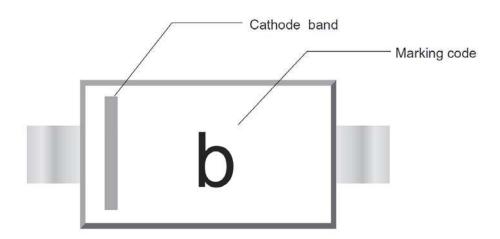
Torex places an importance on improving our products and their reliability.
 We request that users incorporate fail-safe designs and post-aging protection treatment when using Torex products in their systems.

■REFERENCE PATTERN LAYOUT

●SOD-923



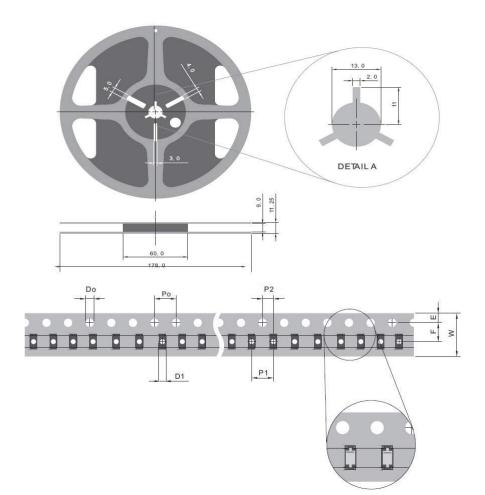
■MARKING



XBP1010

■TAPING SPECIFICATIONS

•SOD-923



	SYMBOL	mm	
	D0	1.50 ± 0.10	
	D1	0.40 ± 0.05	
	Е	1.75 ± 0.10	
	F	3.50 ± 0.05	
	P0	4.00 ± 0.10	
	P1	2.00 ± 0.05	
	P2	2.00 ± 0.05	
	W	8.00 + 0.3 - 0.1	
I			

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- 2. We assume no responsibility for any infringement of patents, patent rights, or other rights arising from the use of any information and circuitry in this datasheet.
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 (e.g. Atomic energy; aerospace; transport; combustion and associated safety

(e.g. Atomic energy; aerospace; transport; combustion and associated safety equipment thereof.)

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