TVS Diode

■ FEATURES

Bi-directional, One Line Terminal Capacitance ESD Protection Environmentally Friendly

: 100pF : 8kV Contact (IEC61000-4-2) : EU RoHS Compliant, Pb Free

■ PIN CONFIGURATION



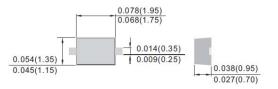


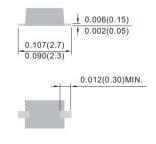
■ PACKAGING INFORMATION

●SOD-323P

Unit: inch (mm)

ETR29011-002





■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	

XBP1012

■ELECTRICAL CHARACTERISTICS

Ta=25°C

	SYMBOL	TEST CONDITIONS	LIMITS			
PARAMETER			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 μ s)	Vc	I _{PP} =5A	-	-	19	V
Clamping Voltage (8/20 μ s)	Vc	I _{PP} =15A	-	-	24	V
Terminal Capacitance	Ct	V _R =0V, f=1MHz	-	-	100	pF

■NOTES ON USE

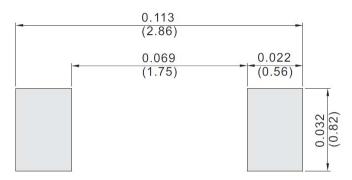
 Please use this IC within the absolute maximum ratings.
 Even within the ratings, in case of high load use continuously such as high temperature, high voltage, high current and thermal stress may cause reliability degradation of the IC.

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.

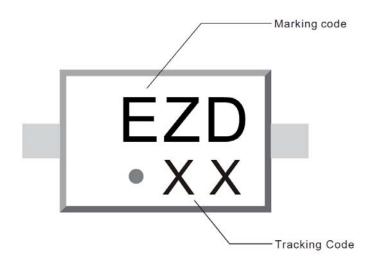
■REFERENCE PATTERN LAYOUT

●SOD-323P

Unit : inch (mm)



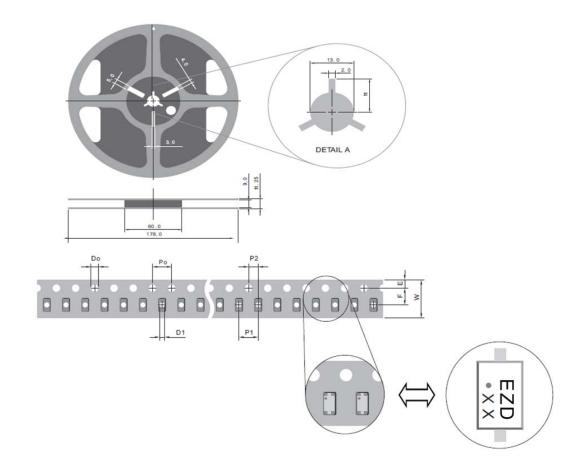
■ MARKING



XBP1012

■TAPING SPECIFICATIONS

●SOD-323P



	SYMBOL	
	SYMBOL	mm
	D0	1.55 ± 0.10
	D1	1.00 ± 0.25
	E	1.75 ± 0.10
	F	3.50 ± 0.05
	P0	4.00 ± 0.10
	P1	4.00 ± 0.10
	P2	2.00 ± 0.05
	W	+ 0.30 8.00 -0.15
1		

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- 4. The products in this datasheet are not developed, designed, or approved for use with such equipment whose failure of malfunction can be reasonably expected to directly endanger the life of, or cause significant injury to, the user.

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

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