

## TVS Diode

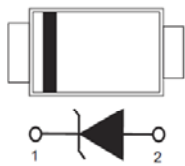
### FEATURES

**Terminal Capacitance** : 300pF  
**ESD Protection** : 25kV  
**Environmentally Friendly** : EU RoHS Compliant, Pb Free

### APPLICATIONS

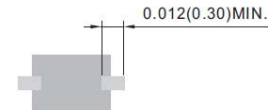
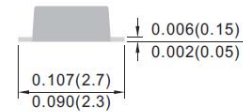
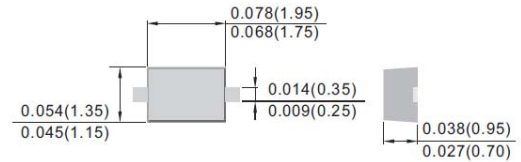
● Portable equipment

### PIN CONFIGURATION



### PACKAGING INFORMATION

● SOD-323P Unit: inch (mm)



### PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT
XBP1013-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 μs Waveform)	Ppk	350	W
Junction Temperature	Tj	-50 to 150	°C
Storage Temperature	Tstg	-50 to 150	°C

## ■ ELECTRICAL CHARACTERISTICS

Ta=25°C

PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNITS
			MIN.	TYP.	MAX.	
Stand-Off Voltage	$V_{RWM}$		-	-	5	V
Breakdown Voltage	$V_{BR}$	$I_R=1mA$	6.0	-	7.2	V
Leakage Current	$I_R$	$V_R=5V$	-	-	10	$\mu A$
Clamping Voltage (8/20 $\mu s$ )	$V_C$	$I_{PP}=1A$	-	-	9.8	V
Terminal Capacitance	$C_t$	$V_R=0V, f=1MHz$	-	300	-	pF
		$V_R=5V, f=1MHz$	-	100	-	pF

## ■ NOTES ON USE

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

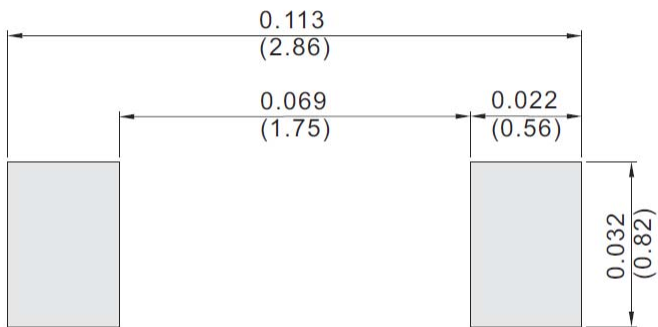
Even within the ratings, in case of high load use continuously such as high temperature, high voltage, high current and thermal stress may cause reliability degradation of the IC.

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

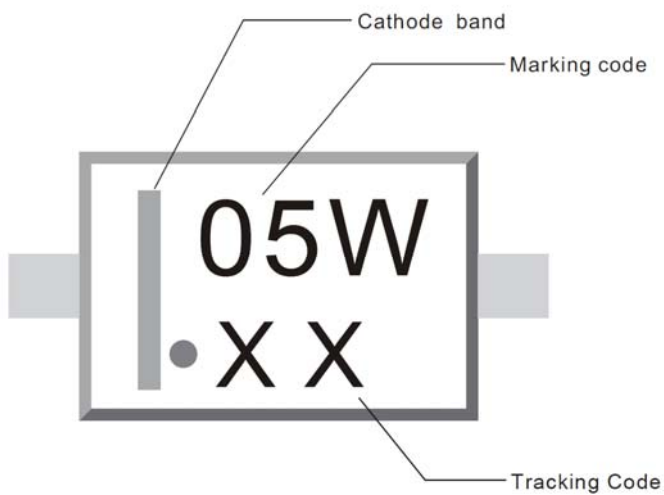
We request that users incorporate fail-safe designs and post-aging protection treatment when using Torex products in their systems.

## ■ REFERENCE PATTERN LAYOUT

● SOD-323P

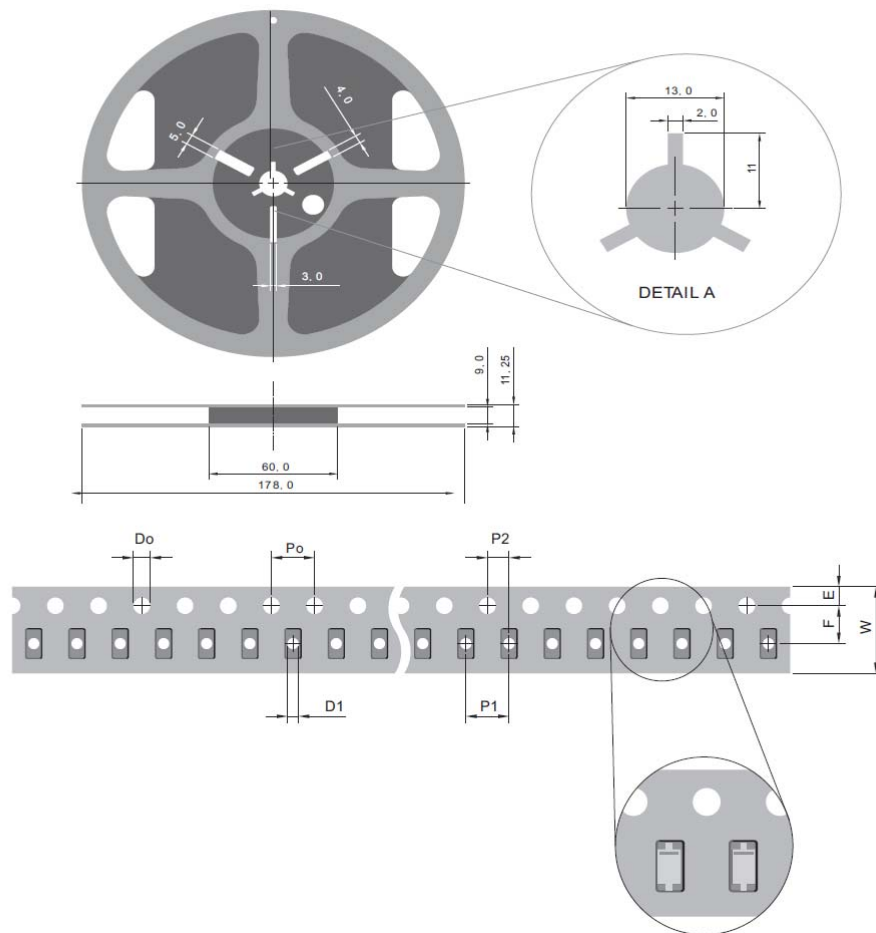


## ■ MARKING



## TAPING SPECIFICATIONS

●SOD-323P



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	8.00 + 0.30 -0.15

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