XBP1007

ETR29014-001

Low Capacitance TVS Diode Array

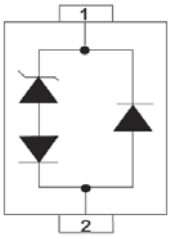
■FEATURES

Terminal Capacitance : 3.0pF
ESD Protection : 8kV Contact (IEC61000-4-2)
Environmentally Friendly : EU RoHS Compliant, Pb Free

■APPLICATIONS

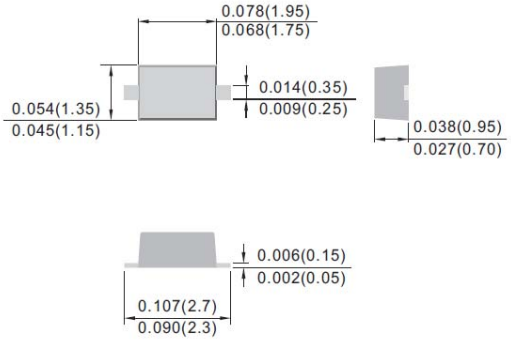
●USB2.0
●Ethernet
●DVI

■PIN CONFIGURATION



■ PACKAGING INFORMATION

●SOD-323P Unit: inch (mm)



■PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT
XBP1007-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℃

PARAMETER	SYMBOL	RATINGS	UNITS
Peak Pulse Power (8/20μs Waveform)	Ppk	350	W
Junction Temperature	Tj	-55 to 150	℃
Storage Temperature	Tstg	-55 to 150	℃

■ELECTRICAL CHARACTERISTICS

Ta=25℃

PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNITS
			MIN.	TYP.	MAX.	
Stand-Off Voltage	V_{RWM}		-	-	24	V
Breakdown Voltage	V_{BR}	I_R=1mA	27.27	-	30.14	V
Leakage Current	I_R	V_R=24V	-	-	1	μA
Clamping Voltage (8/20μs)	V_C	I_{PP}=1A	-	-	43	V
Terminal Capacitance	C_t	V_R=0V, f=1MHz	-	-	3.0	pF

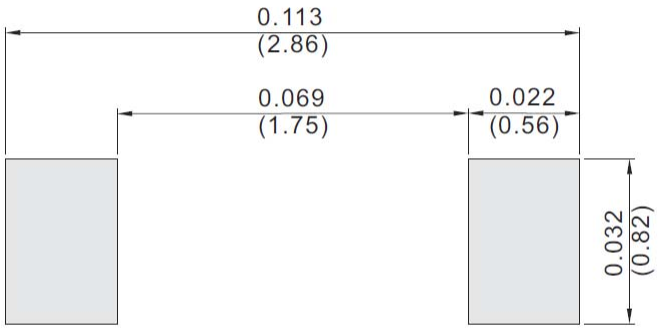
■NOTES ON USE

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.

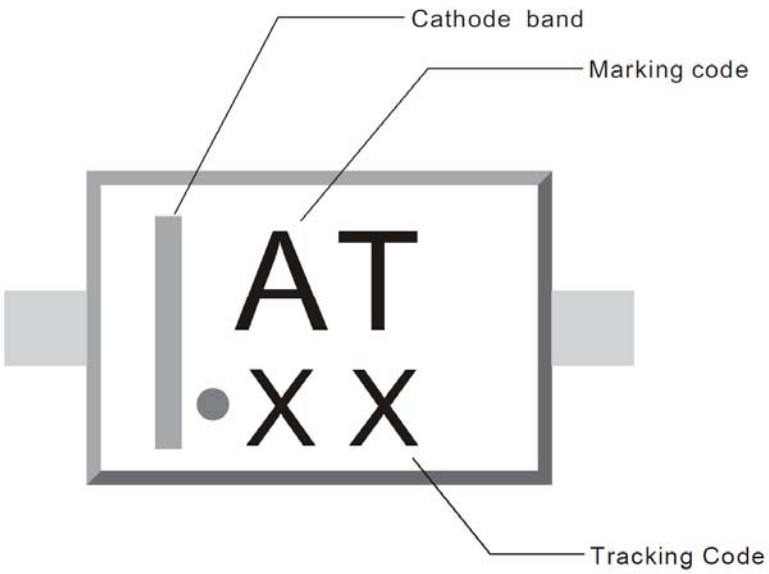
2. Torex places an importance on improving our products and their reliability.
   We request that users incorporate fail-safe designs and post-aging protection treatment when using Torex products in their systems.

■REFERENCE PATTERN LAYOUT

●SOD-323P

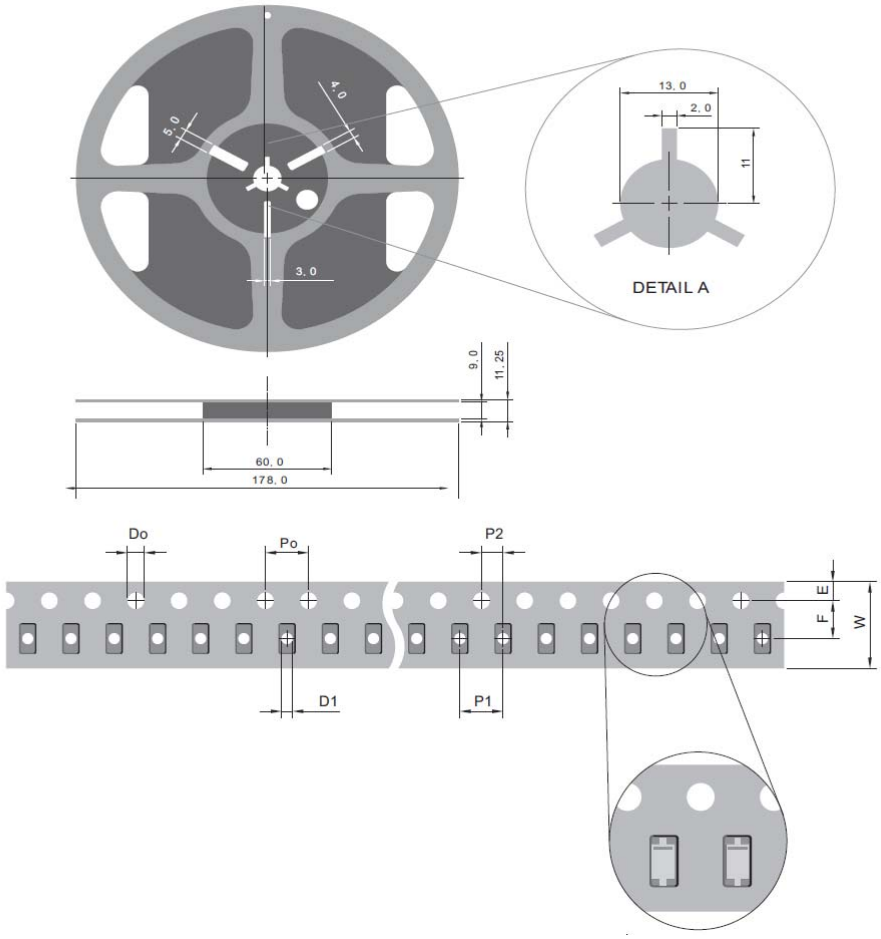


■MARKING



■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

1. The products 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. 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.
3. Please ensure suitable shipping controls (including fail-safe designs and aging protection) are in force for equipment employing products listed in this datasheet.
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.)
5. Please use the products listed in this datasheet within the specified ranges.
   Should you wish to use the products under conditions exceeding the specifications, please consult us or our representatives.
6. We assume no responsibility for damage or loss due to abnormal use.
7.

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