XBP1006

ETR29006-001

Low Capacitance TVS Diode Array

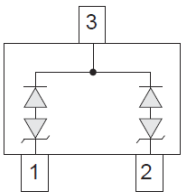
■FEATURES

Terminal Capacitance : 1.0pF (Pin1-3, Pin2-3)
ESD Protection : 8kV Contact (IEC61000-4-2)
Environmentally Friendly : EU RoHS Compliant, Pb Free

■APPLICATIONS

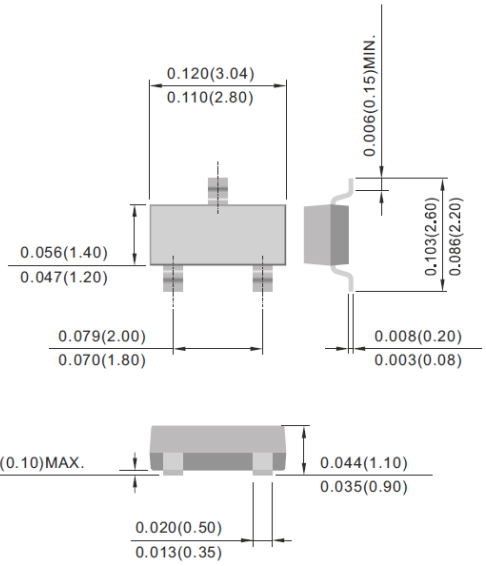
●Portable equipment
●Networking equipment

■PIN CONFIGURATION



■ PACKAGING INFORMATION

●SOT-23P Unit: inch (mm)



■PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT
XBP1006-G *	SOT-23P	3,000 / 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	400	W
Peak Pulse Current (8/20μs Waveform)	Ipp	17	A
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}		-	-	5	V
Breakdown Voltage	V_{BR}	I_R=1mA	6	-	-	V
Leakage Current	I_R	V_R=5V	-	0.8	1.2	μA
Clamping Voltage (8/20μs)	V_C	I_{PP}=1A	-	-	9.5	V
Clamping Voltage (8/20μs)	V_C	I_{PP}=5A	-	-	12	V
Terminal Capacitance	C_t	V_R=0V, f=1MHz Between Pin1,2 to 3	-	-	1.0	pF

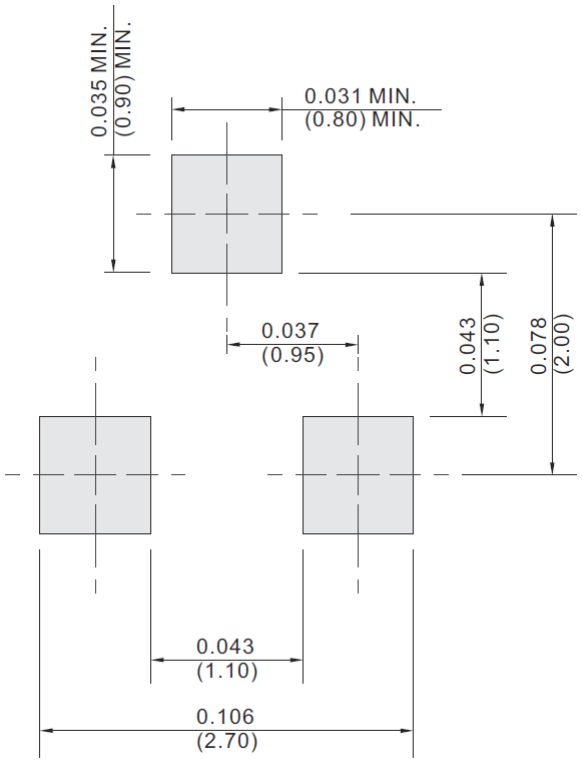
■NOTES ON USE

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.

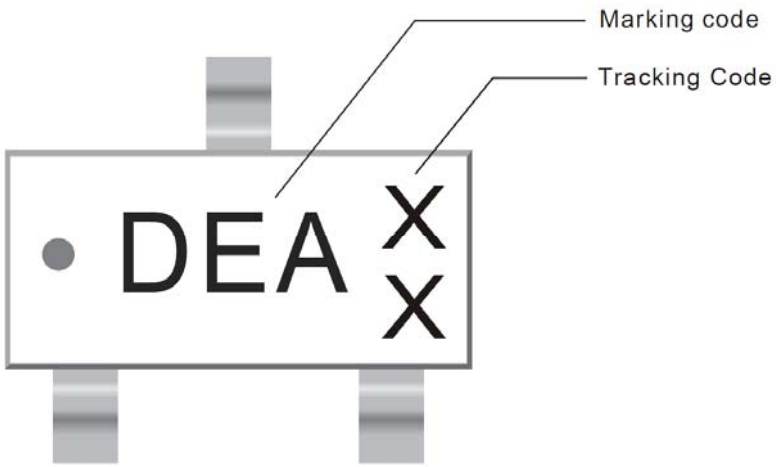
2. Torex places an importance on improving our products and their reliability.
   We request that users incorporate fail-safe designs and post-aging protection treatment when using Torex products in their systems.

■REFERENCE PATTERN LAYOUT

●SOT-23P

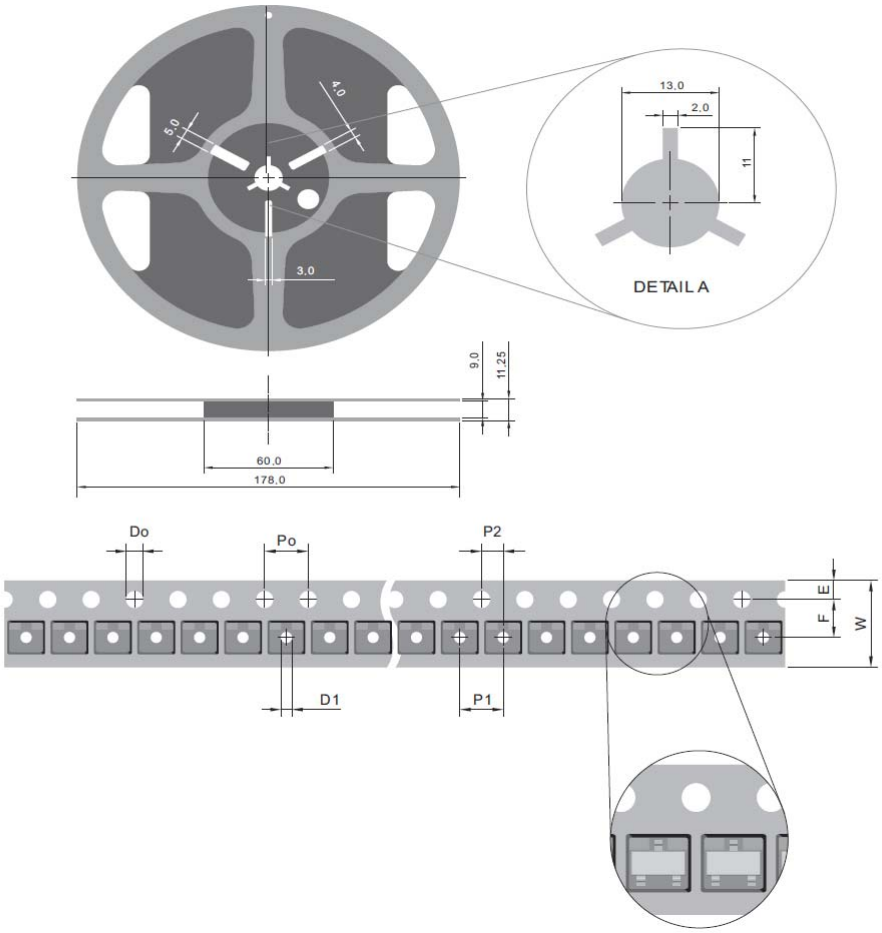


■MARKING



■TAPING SPECIFICATIONS

●SOT-23P



SYMBOL	mm
D0	1.50 ± 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 $^{+0.3}_{-0.15}$

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