

Low Capacitance TVS Diode Array

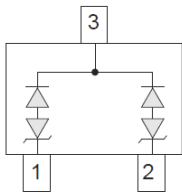
FEATURES

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

APPLICATIONS

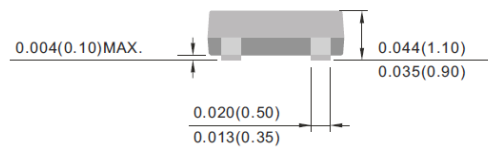
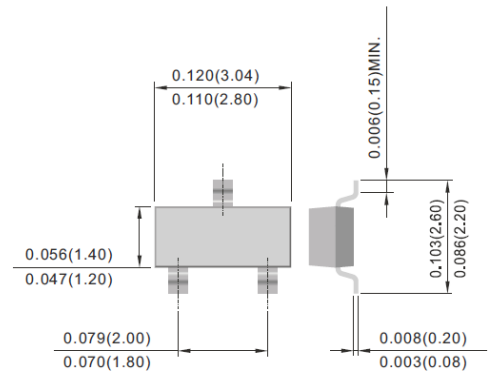
- Portable equipment
- Networking equipment

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°C

PARAMETER	SYMBOL	RATINGS	UNITS
Peak Pulse Power (8/20 μ s Waveform)	Ppk	400	W
Peak Pulse Current (8/20 μ s Waveform)	Ipp	17	A
Junction Temperature	Tj	-55 to 150	°C
Storage Temperature	Tstg	-55 to 150	°C

ELECTRICAL CHARACTERISTICS

Ta=25°C

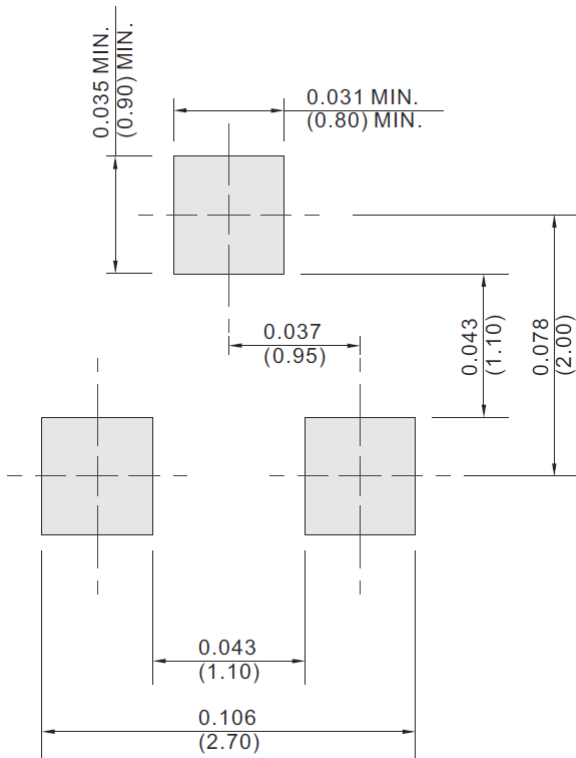
PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNITS
			MIN.	TYP.	MAX.	
Stand-Off Voltage	V_{RWM}		-	-	5	V
Breakdown Voltage	V_{BR}	$I_R=1mA$	6	-	-	V
Leakage Current	I_R	$V_R=5V$	-	0.8	1.2	μA
Clamping Voltage (8/20 μs)	V_C	$I_{PP}=1A$	-	-	9.5	V
Clamping Voltage (8/20 μs)	V_C	$I_{PP}=5A$	-	-	12	V
Terminal Capacitance	C_t	$V_R=0V$, $f=1MHz$ Between Pin1,2 to 3	-	-	1.0	pF

NOTES ON USE

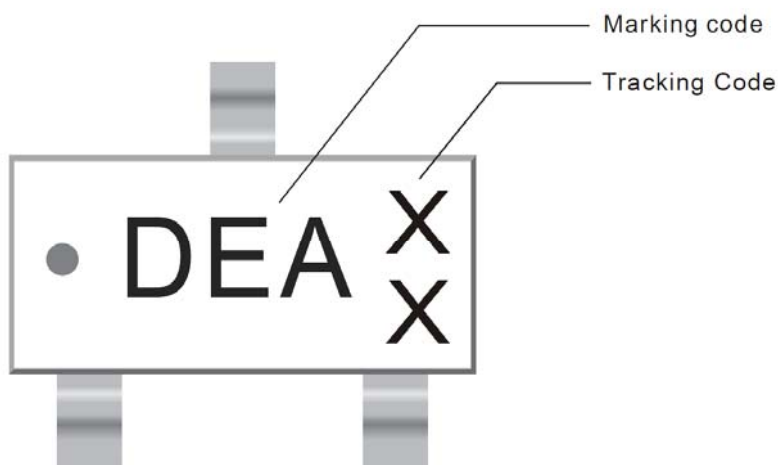
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2. Torex places an importance on improving our products and their reliability.
We request that users incorporate fail-safe designs and post-aging protection treatment when using Torex products in their systems.

■ REFERENCE PATTERN LAYOUT

● SOT-23P

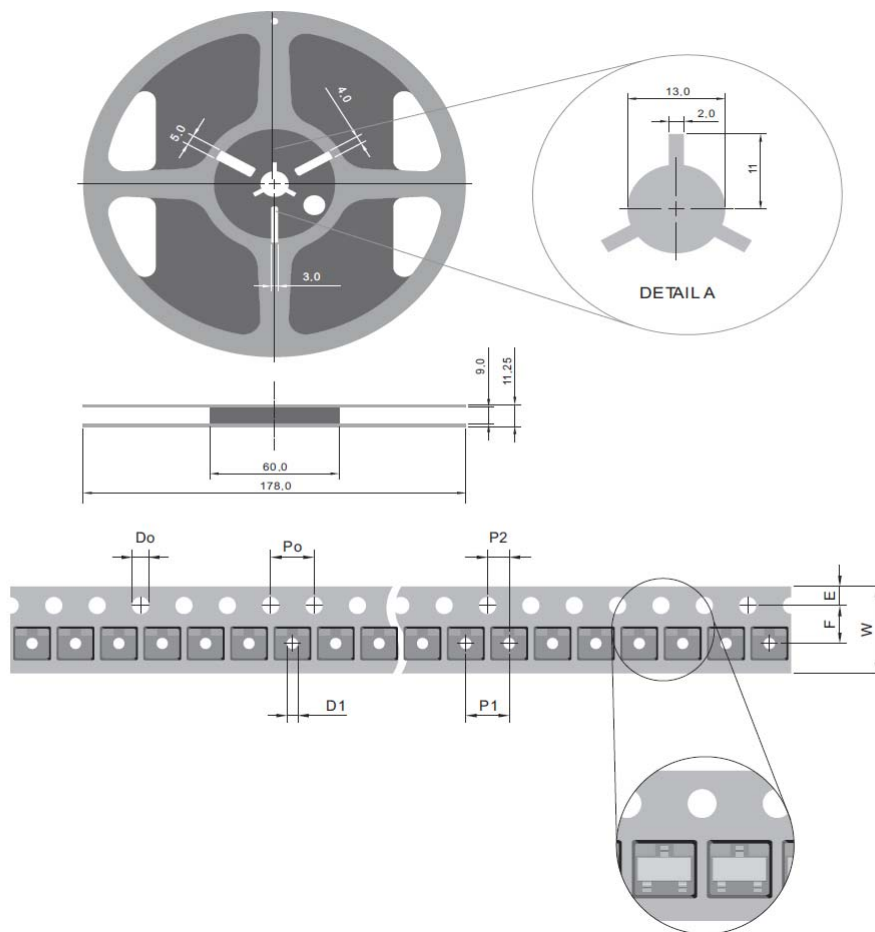


■ MARKING



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	$8.00 \begin{matrix} + 0.3 \\ - 0.15 \end{matrix}$

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