XBP1006

ETR29006-001

Low Capacitance TVS Diode Array

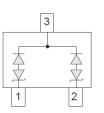
■FEATURES

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

Portable equipment

Networking equipment

■ PIN CONFIGURATION

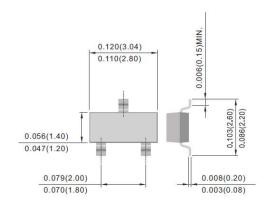


PACKAGING INFORMATION

●SOT-23P

0.004(0.10)MAX

Unit: inch (mm)



0.020(0.50)



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

0.044(1.10)

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

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■ELECTRICAL CHARACTERISTICS

Ta=25°C

PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			
	STIVIBUL		MIN.	TYP.	MAX.	UNITS
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 μ s)	Vc	I _{PP} =1A	-	-	9.5	V
Clamping Voltage (8/20 μ s)	Vc	I _{PP} =5A	-	-	12	V
Terminal Capacitance	Ct	V _R =0V, f=1MHz Between Pin1,2 to 3	-	-	1.0	pF

■NOTES ON USE

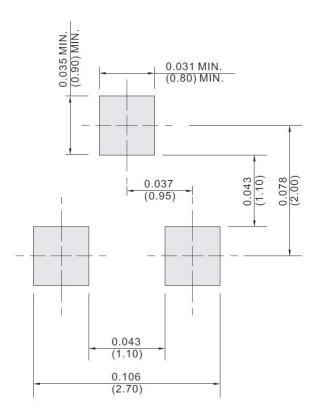
1. Please use this IC within the absolute maximum ratings.

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.

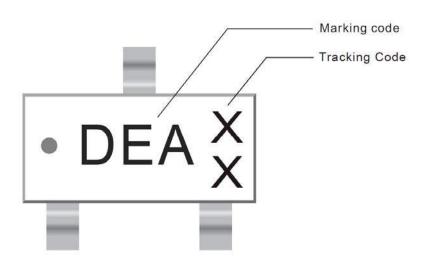
Torex places an importance on improving our products and their reliability.
 We request that users incorporate fail-safe designs and post-aging protection treatment when using Torex products in their systems.

■ REFERENCE PATTERN LAYOUT

●SOT-23P



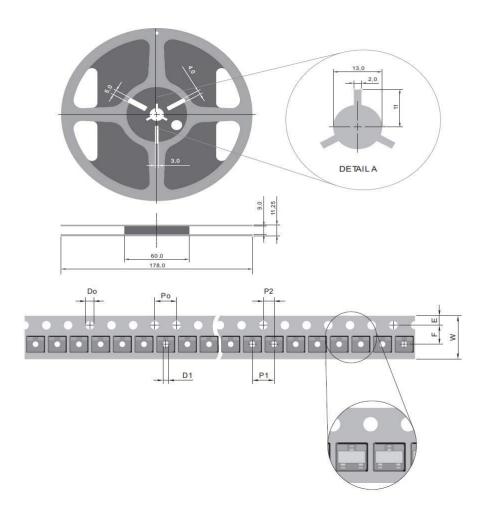
■MARKING



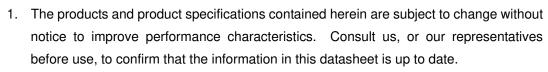
XBP1006

■TAPING SPECIFICATIONS

●SOT-23P



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	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	+ 0.3 8.00 -0.15



- 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.
- 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

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

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