ETR29013-001

Low Capacitance TVS Diode Array

■FEATURES

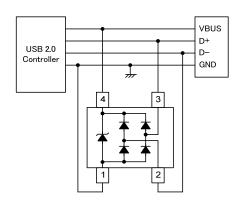
Terminal Capacitance : 1.2pF (Line-to-GND)
ESD Protection : 8kV Contact (IEC610

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

■APPLICATIONS

- ●USB2.0, Firewire
- ●HDMI Ver.1.3
- DVI

■APPLICATION CIRCUIT

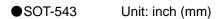


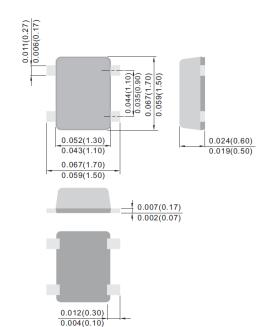
■PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT		
XBP1004-G *	SOT-543	4,000 / Reel		

^{*} The "-G" suffix denotes Halogen and Antimony free as well as being fully RoHS compliant.

■ PACKAGING INFORMATION





■ABSOLUTE MAXIMUM RATINGS

Ta=25°C

PARAMETER	SYMBOL	RATINGS	UNITS
Peak Pulse Power (8/20 μ s Waveform)	Ppk	350	W
Junction Temperature	Tj	-55 to 125	°C
Storage Temperature	Tstg	-55 to 150	°C

■ELECTRICAL CHARACTERISTICS

Ta=25°C

PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNITS
PARAIVIETER STIVIBOL TEST CONDITIONS		MIN.	TYP.	MAX.	UNITS	
Stand-Off Voltage	V_{RWM}		-	-	5	V
Breakdown Voltage	V_{BR}	I _R =1mA	6.2	-	-	V
Leakage Current	I _R	V _R =5V	-	-	1	μΑ
Clamping Voltage (8/20 μ s)	V _C	I _{PP} =1A	-	-	9	V
Clamping Voltage (8/20 μ s)	V _C	I _{PP} =5A	-	-	12	V
Terminal Capacitance	Ct	V _R =0V, f=1MHz Between I/O pins and GND	-	0.9	1.2	pF
		V _R =0V, f=1MHz Between I/O pins	-	0.5	0.6	pF

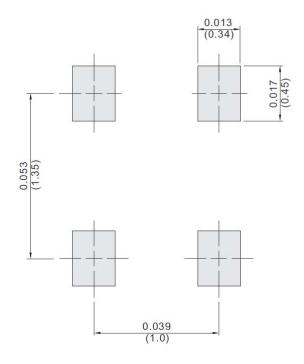
■NOTES ON USE

- 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.

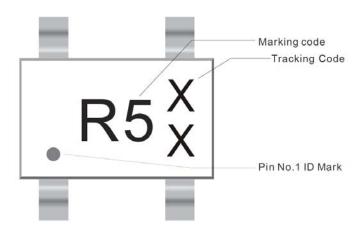
 We request that users incorporate fail-safe designs and post-aging protection treatment when using Torex products in their systems.

■REFERENCE PATTERN LAYOUT

●SOT-543

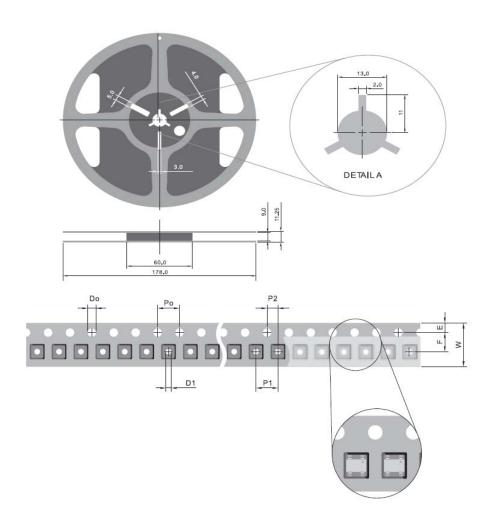


■MARKING



■TAPING SPECIFICATIONS

●SOT-543



SYMBOL		mm	
D0		1.50 ± 0).10
D1		1.00 ± 0).25
	or	0.50 ± 0).10
Е		1.75 ± 0).10
F		3.50 ± 0).05
P0	P0 P1).10
P1).10
P2		2.00 ± 0).05
W		8.00	+ 0.30 - 0.15

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