

Low Capacitance TVS Diode Array

FEATURES

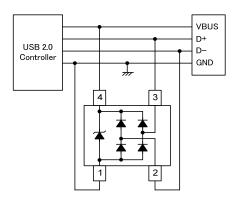
Terminal Capacitance ESD Protection Environmentally Friendly

: 1.2pF (Line-to-GND) : 8kV Contact (IEC61000-4-2) : 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.

■ABSOLUTE MAXIMUM RATINGS

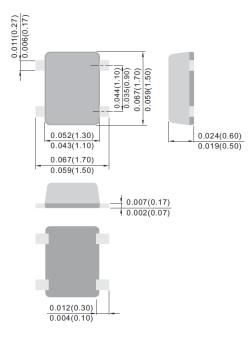
Ta=25°C

			14 20 0
PARAMETER	SYMBOL	RATINGS	UNITS
Peak Pulse Power (8/20 به Waveform)	Ppk	350	W
Junction Temperature	Tj	-55 to 125	°C
Storage Temperature	Tstg	-55 to 150	°C

PACKAGING INFORMATION

●SOT-543

43 Unit: inch (mm)



XBP1004

ELECTRICAL CHARACTERISTICS

Ta=25°C

	SYMBOL		LIMITS			
PARAMETER		TEST CONDITIONS	MIN.	TYP.	MAX.	UNITS
Stand-Off Voltage	VRWM		-	-	5	V
Breakdown Voltage	V _{BR}	I _R =1mA	6.2	-	-	V
Leakage Current	IR	V _R =5V	-	-	1	μA
Clamping Voltage (8/20 به)	Vc	Ipp=1A	-	-	9	V
Clamping Voltage (8/20 به)	Vc	Ipp=5A	-	-	12	V
Terminal Consoitance	ince C _t	V _R =0V, f=1MHz Between I/O pins and GND	-	0.9	1.2	pF
Terminal Capacitance		V _R =0V, f=1MHz Between I/O pins	-	0.5	0.6	pF

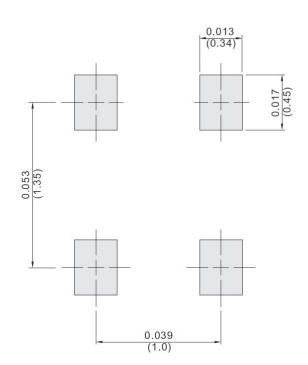
■NOTES ON USE

 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.

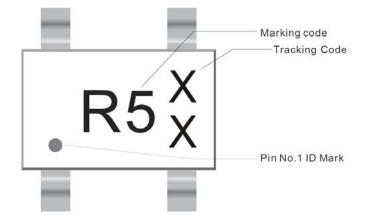
2. Torex places an importance on improving our products and their reliability. We request that users incorporate fail-safe designs and post-aging protection treatment when using Torex products in their systems.

■REFERENCE PATTERN LAYOUT

●SOT-543



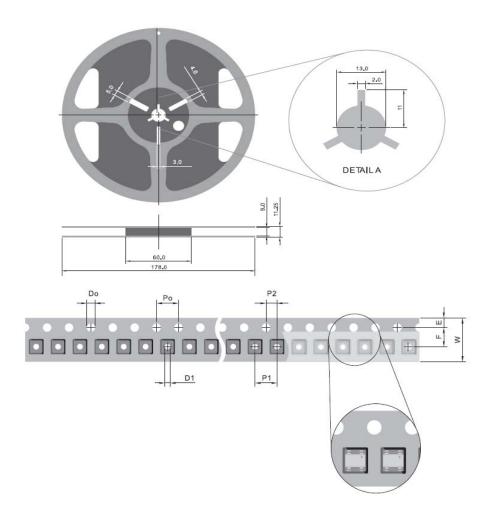
■ MARKING



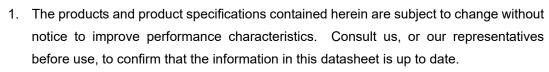
XBP1004

■TAPING SPECIFICATIONS

●SOT-543



_			
	SYMBOL		mm
	D0		1.50 ± 0.10
	D1		1.00 ± 0.25
		or	0.50 ± 0.10
	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		+ 0.30 8.00 - 0.15



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 (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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