

**PJSDA6V1BC6** 

#### QUAD BI-DIRECTIONAL TVS/ZENER FOR ESD PROTECTION

This Quad TVS/Zener Array has been designed to Protect Sensitive Equipment against ESD and to prevent Latch-Up events in CMOS circuitry operating at 5V and below. This TVS array offers and integrated solution to protect up to 4 data lines where the board space is a premium.

#### **FEATURES**

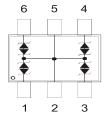
- 150W Power Dissipation (8/20µs Waveform)
- Low Leakage Current, Maximum of 1μA@5V
- Very Low Clamping Voltage (Max of 10V@14A 8/20μs)
- IEC61000-4-2 ESD 15kV air, 8kV Contact Compliance
- · Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

#### **MECHANICAL DATA**

- · Case: SOT-23 6L, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx weight: 0.0002 ounces, 0.006 grams
- Marking: 616

#### **APPLICATIONS**

- Personal Digital Assistant (PDA)
- SIM Card Port Protection (Mobile Phone)
- · Portable Instrumentation
- Mobile Phones and Accessories
- Computer Data Ports



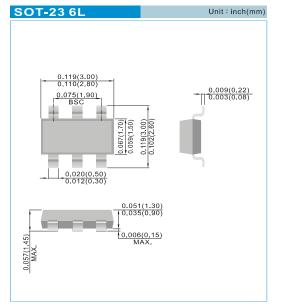
#### **MAXIMUM RATINGS**

RATING	SYMBOL	VALUE	UNIT
Peak Pulse Power (8/20µs waveform) (Notes 1,2)	Ррр	150	W
Peak Pulse Current (8/20µs waveform)	I pp	14	А
ESD Voltage (HBM)	Vesd	>25	kV
Operating Junction Temperature and Storage Temperature Range	Тј,Тѕтс	-55 to +150	°C

NOTES :

1. Non-repetitive current pulse.

2. Mounted on copper pads to each terminal.





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### ELECTRICAL CHARACTERISTICS (TJ=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-Off Voltage (Notes 3)	Vwrm		-	-	5	V
Reverse Breakdown Voltage	Vbr	IBR=1mA	6.2	-	7.2	V
Reverse Leakage Current	IR	V <sub>R</sub> =5V	-	-	1	μΑ
Clamping Voltage (8/20µs)	Vc	IPP=5A	-	-	9	V
Clamping Voltage (8/20µs)	Vc	IPP=10A	-	-	11	V
Off State Junction Capacitance	CJ	0 Vdc Bias,f=1MHz between I/O pins and pin 7	-	-	90	pF
Off State Junction Capacitance	Сл	5 Vdc Bias,f=1MHz between I/O pins and pin 7	-	-	50	pF

NOTES :

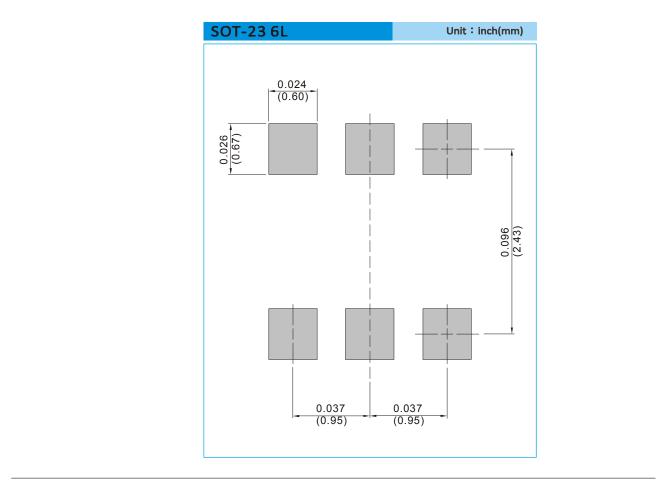
3. A transient suppressor is selected according to the working peak reverse voltage (VRWM), which should be equal to or greater than the DC or continuous peak operating voltage level.





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#### MOUNTING PAD LAYOUT



#### **ORDER INFORMATION**

Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





# PJSDA6V1BC6

### Part No\_packing code\_Version

PJSDA6V1BC6\_R1\_00001 PJSDA6V1BC6\_R2\_00001

## For example :

### RB500V-40\_R2\_00001



Serial number
Version code means HF
Packing size code means 13"

• Packing type means T/R

Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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