



PJSDA6V1BC6-AU

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 an integrated solution to protect up to 4 data lines where the board space is a premium.

FEATURES

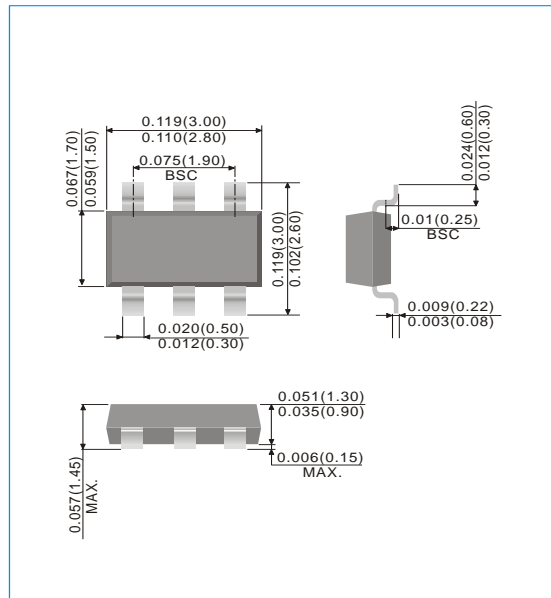
- 150W Power Dissipation (8/20µs Waveform)
- Low Leakage Current, Maximum of 1µA@5V
- Very Low Clamping Voltage (Max of 10V@14A 8/20µs)
- IEC61000-4-2 ESD 15kV air, 8kV Contact Compliance
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: SOT-23 6L, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx weight: 0.0005 ounces, 0.014 grams
- Marking: 616

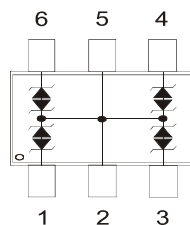
SOT-23 6L

Unit : inch(mm)



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)	PP	150	W
Peak Pulse Current (8/20µs waveform)	IPP	14	A
ESD Voltage (HBM)	V _{ESD}	>25	kV
Operating Junction Temperature and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

NOTES :

1. Non-repetitive current pulse.
2. Mounted on copper pads to each terminal.



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ELECTRICAL CHARACTERISTICS (T_J=25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Stand-Off Voltage (Notes 3)	V _{WRM}		-	-	5	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} =1mA	6.2	-	7.2	V
Reverse Leakage Current	I _R	V _R =5V	-	-	1	μA
Clamping Voltage (8/20μs)	V _C	I _{PP} =5A	-	-	9	V
Clamping Voltage (8/20μs)	V _C	I _{PP} =10A	-	-	11	V
Off State Junction Capacitance	C _J	0 Vdc Bias, f=1MHz between I/O pins and pin 7	-	-	90	pF
Off State Junction Capacitance	C _J	5 Vdc Bias, f=1MHz between I/O pins and pin 7	-	-	50	pF

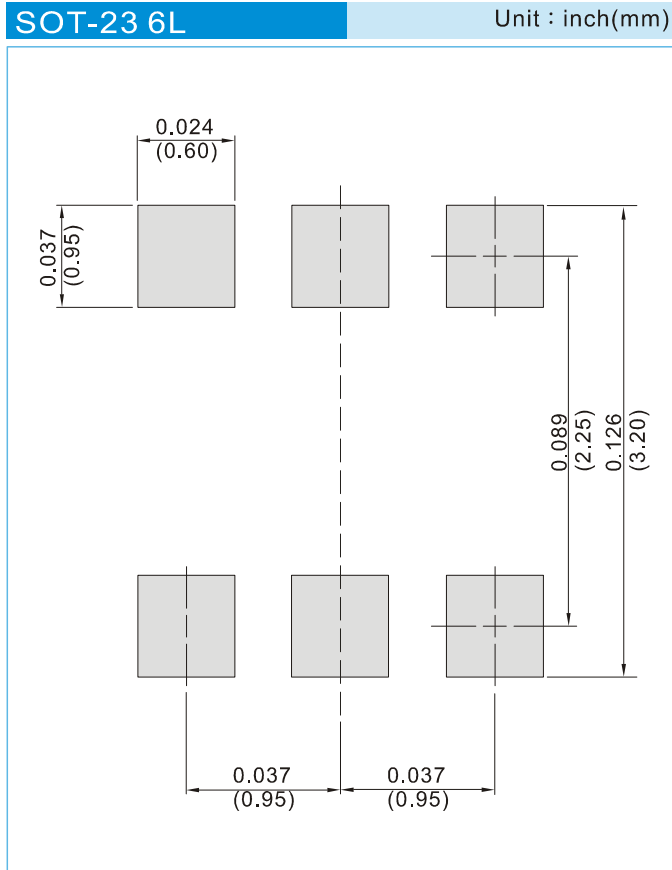
NOTES :

3. A transient suppressor is selected according to the working peak reverse voltage (V_{WRM}), 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



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Part No_packing code_Version

PJSDA6V1BC6-AU_R1_000A1

PJSDA6V1BC6-AU_R2_000A1

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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)	B	13"	2			
Tube Packing (T/P)	T	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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