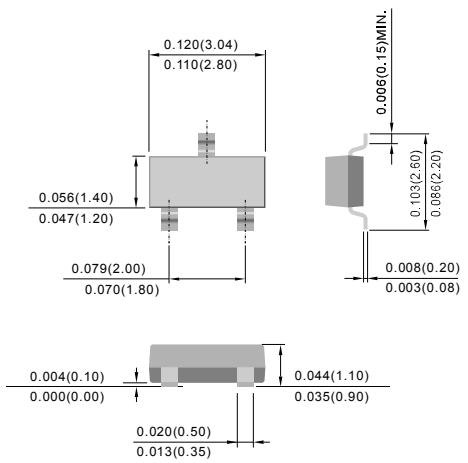
PJMBZ15V-AU / PJMBZ27V-AU

DUAL TVS ZENER FOR ESD / TRANSIENT PROTECTION

This Dual Zener ESD/Transient Protector with a Common Cathode,Configuration has been designed to protect Sensitive Equipment against,ESD and pevent Latch-Up events.The combination of a dual device protects up to two data lines in a single package giving the advantage of board space savings where this is a premium.

VOLTAGE 12 / 22 Volts **POWER** 150 Watts

SOT-23 Unit: inch (mm)



FEATURES

- Working Peak Reverse Voltage of 12V and 22V
- Maximum Leakage Current of 100nA and 50nA @ V_{RWM}
- IEC61000-4-2 Compliance 15kV Air, 8kV Contact Discharge
- Industry Standard SOT-23 Package
- Acqire quality system certificate : TS16949
- Manufactured in accordance with AECQ101
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

APPLICATIONS

- Data Transmission Line Ports
- Computer Monitor Interface Port Protection
- Portable Consumer Electronics
- Instrumentation Equipment

MECHANICAL DATA

- Case: SOT-23, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Apporx. Weight: 0.0003 ounce, 0.0084 gram

MAXIMUM RATINGS

PARAMETER	Symbol	Value	Units
Peak Pulse Power 8x20 µsec Waveform Peak Pulse Power 10x1000 µsec	P_{PP}	150 25	W
ESD Voltage (HBM)	V_{ESD}	>25	kV
Operating Temperature Range	T_J	-55 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C
Lead Soldering Temperature (max 10 secs)	T_L	260	°C

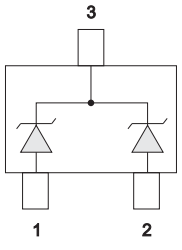


Fig.38

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ELECTRICAL CHARACTERISTICS Tj = 25°C

PJMBZ15V-AU Marking UL						
PARAMETER	Symbol	Condition	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{RWM}		-	-	12	V
Reverse Breakdown Voltage	V_{BR}	I_{BR}=1mA	14.3	-	15.8	V
Reverse Leakage Current	I_R	V_{RWM}=12V	-	-	100	nA
Clamping Voltage (8x20 μsec)	V_{CL}	I_{PP}=6Amps	-	-	24	V
Clamping Voltage (10x1000 μsec)	V_{CL}	I_{PP}=1Amps	-	-	23	V
Off State Junction Capacitance	C_J	0 Vdc Bias f=1MHz Between I/O pins and pin 3	-	-	80	pF
PJMBZ27V-AU Marking US						
PARAMETER	Symbol	Condition	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{RWM}		-	-	22	V
Reverse Breakdown Voltage	V_{BR}	I_{BR}=1mA	25.65	-	28.35	V
Reverse Leakage Current	I_R	V_{RWM}=22V	-	-	50	nA
Clamping Voltage (8x20 μsec)	V_{CL}	I_{PP}=4Amps	-	-	36	V
Clamping Voltage (10x1000 μsec)	V_{CL}	I_{PP}=0.85Amps	-	-	30	V
Off State Junction Capacitance	C_J	0 Vdc Bias f=1MHz Between I/O pins and pin 3	-	-	50	pF

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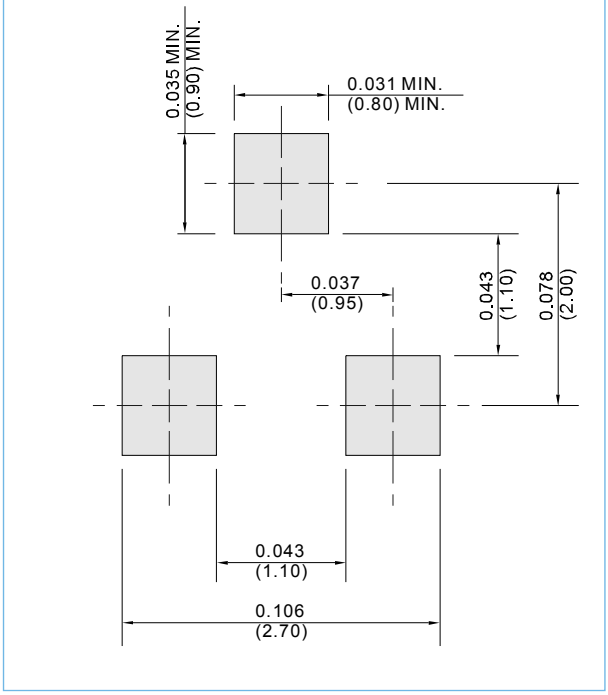
MOUNTING PAD LAYOUT

SOT-23 Unit: inch (mm)



ORDER INFORMATION

- Packing information

  T/R - 12K per 13" plastic Reel

  T/R - 3K per 7” plastic Reel

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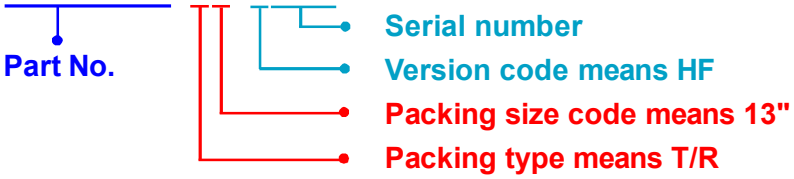
Part No_packing code_Version

PJMBZ15V-AU_R1_000A1

PJMBZ27V-AU_R2_000A1

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th 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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