



PJMBZ15V / PJMBZ27V

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 prevent 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

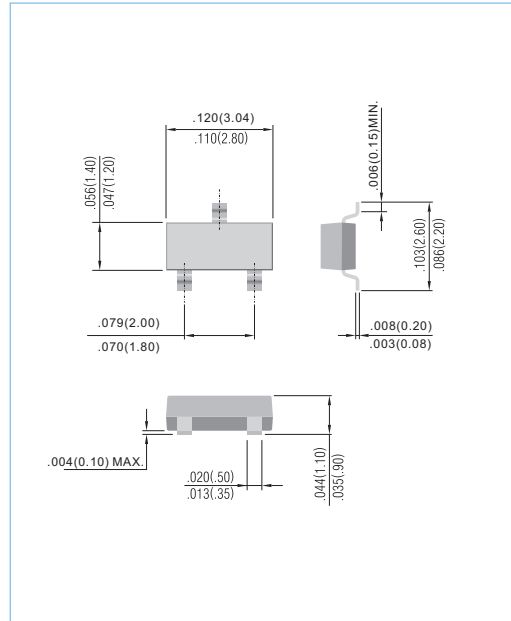
- Working Peak Reverse Voltage of 12V and 22V
- Maximum Leakage Current of 100nA and 50nA @ V_{RWM}
- IEC61000-4-2 Compliance 15kV Air, 8kV Contact Discharge
- Industry Standard SOT-23 Package
- In compliance with EU RoHS 2002/95/EC directives

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 μ sec Waveform	P _{PP}	150	W
Peak Pulse Power 10x1000 μ sec		25	
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

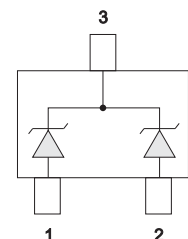


Fig.38



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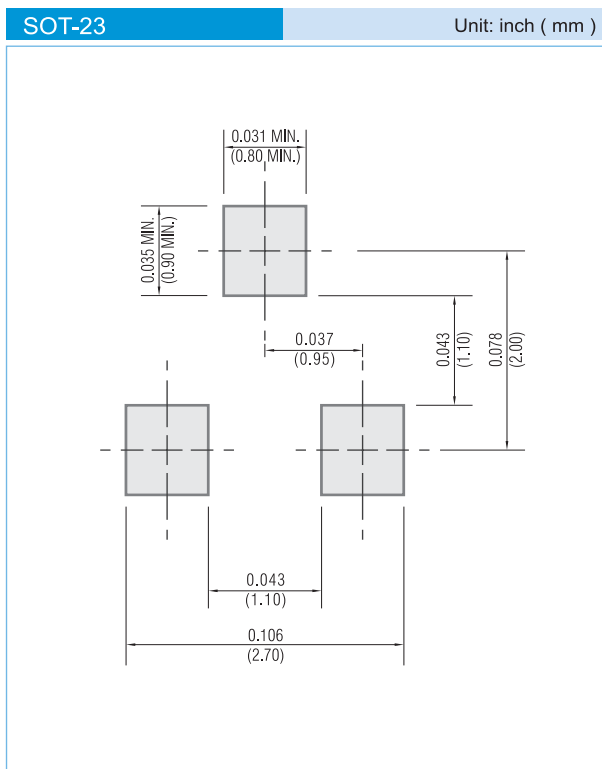
ELECTRICAL CHARACTERISTICS $T_j = 25^\circ\text{C}$

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



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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