



PJSM6V8TB

BI-DIRECTIONAL TVS/ZENER FOR ESD PROTECTION

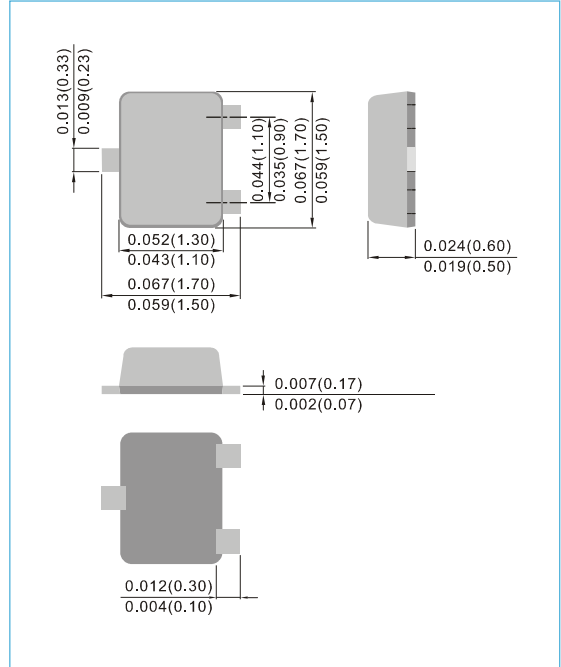
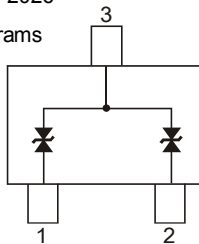
VOLTAGE 5 Volts **POWER** 40 Watts **SOT-523** Unit : inch(mm)

FEATURES

- IEC61000-4-2 ESD 6kV Air, 6kV Contact Compliance
- Low Leakage Current
- Low Clamping Voltage
- Peak Power Dissipation of 40W Under 8/20μs Waveform
- Molded JEDEC SOT-523 Package
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOT-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: approximately 0.00007 ounces, 0.002 grams
- Marking : M8



MAXIMUM RATINGS (TA=25°C unless otherwise noted)

RATING	SYMBOL	VALUE	UNIT
Peak Pulse Power (8/20μs waveform)	PPp	40	W
ESD per IEC 61000-4-2 Contact	V _{ESD}	±6	kV
ESD per IEC 61000-4-2 Air	V _{ESD}	±6	kV
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	5	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} =1mA	6.3	7.7	8.7	V
Reverse Leakage Current	I _R	V _R =5V	-	-	5	μA
Clamping Voltage (8/20μs)	V _C	I _{PP} =3A	-	-	14	V
Junction Capacitance	C _J	0 Vdc Bias, f=1MHz Between	-	-	10	pF



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RATING AND CHARACTERISTIC CURVES

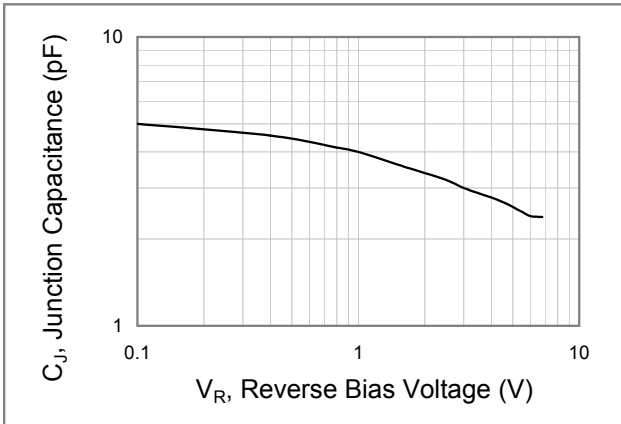


Fig.1 Typical Junction Capacitance

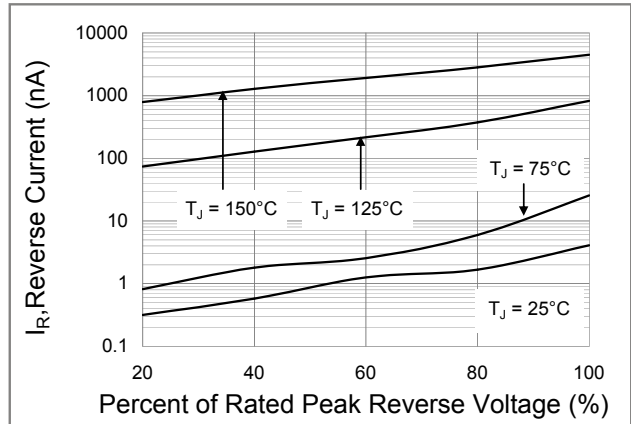


Fig.2 Typical Reverse Characteristics

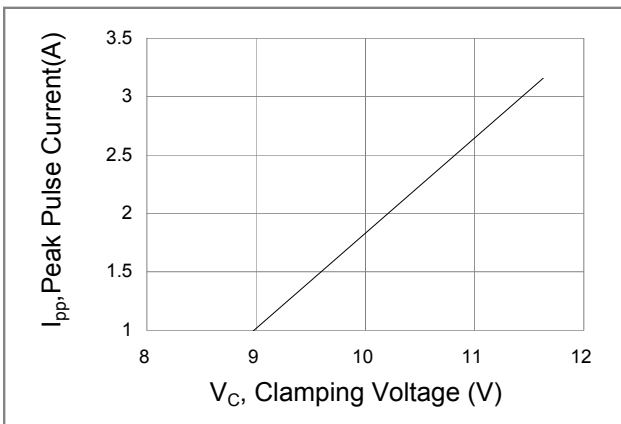


Fig.3 Typical Peak Clamping Voltage(8/20µs)

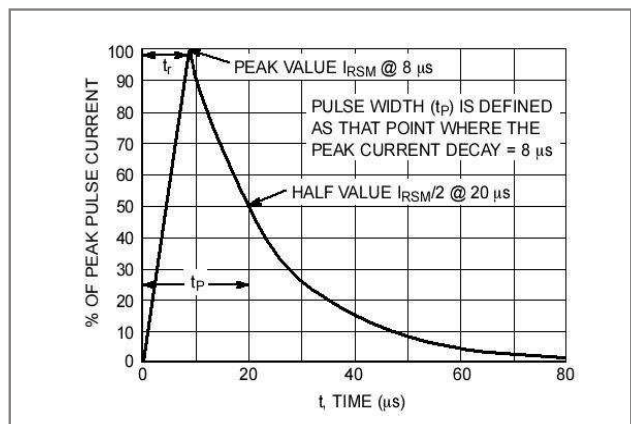
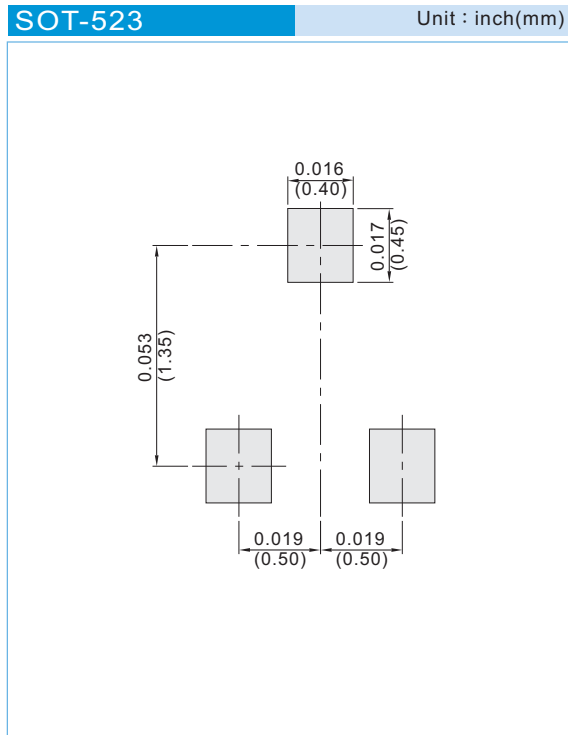


Fig.4 8/20µs Peak Pulse Current Waveform



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information

T/R - 4K per 7" plastic Reel

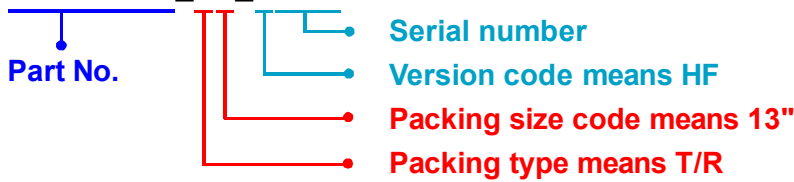


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Part No_packing code_Version
PJSM6V8TB_R1_00001

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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