



ESD PROTECTION DIODES

FEATURES

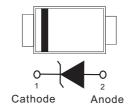
- IEC61000-4-2(ESD): ±30kV Air, ±30kV Contact (±15kV Air, ±15kV Contact for 15V)
- IEC61000-4-4(EFT): 40A(5/50nS)
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

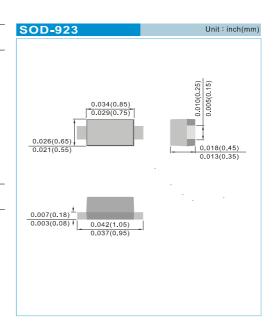
MECHANICAL DATA

Case: SOD-923, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end Approx.Weight: 0.00002 ounce, 0.0005 gram





MAXIMUM RATINGS

Rating	Symbol	Value	Units
Peak Pulse Power Dissipation (8/20μs Waveform)	PPP	40	W
Lead Solder Temperature-Maximum (10 Second Duration)	TL	260	°C
Operating Junction and Storage Temperature Range	Т _Ј ,Тѕтс	-55 to + 150	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Rating are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

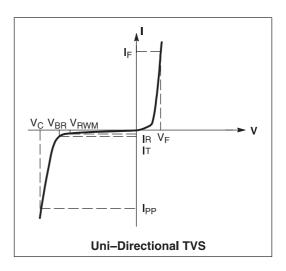
Note : $1.FR-4 = 70 \times 60 \times 1mm$.





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

Parameter	Symbol	
Maximum Reverse Peak Pulse Current	I pp	
Clamping Voltage@I PP	Vc	
Working Peak Reverse Voltage	Vrwm	
Maximum Reverse Leakage Current@Vrwm	ΙR	
Breakdown Voltage @ I⊤	VBR	
Test Current	lт	
Forward Current	lf	
Forward Voltage@I F	VF	
Peak Pulse Power Dissipation	Ppp	
Max.Capacitance@VR=0 and f=1MHz	CJ	



ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted, VF=1.1V Max.@I F=10mA)

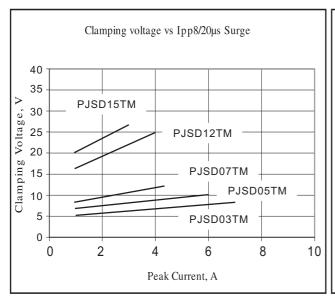
Part Number	VRWM	I R@VRWM	VвR@Iт (Note 2)	C J (Note 3)	Vc	I PP	lτ	Marking
	Max.	Max.	Min.	Max.	Max Per 8x20µs			
	V	μΑ	V	pF	V	Α	mA	
PJSD03TM	3.3	2.5	5.4	50	10	6	1.0	h
PJSD05TM	5	1	6.2	35	12	5	1.0	b
PJSD07TM	7	5	7.5	30	15	4	1.0	С
PJSD12TM	12	1	13.3	18	23	3	1.0	d
PJSD15TM	15	1	17.0	15	30	2	1.0	е

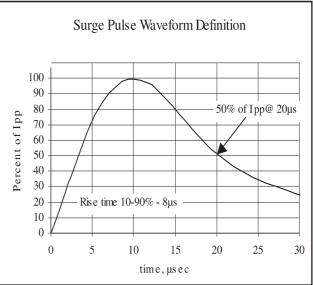
Note : 2.VBR is measured with a pulse test current I_T at an ambinet temperature of 25°C

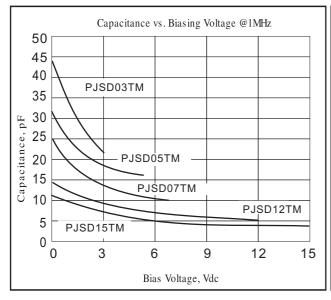
3.Capacitance at f=1MHz, VR=0V, TA=25°C

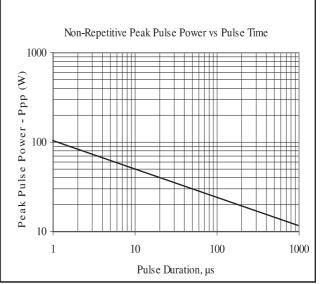








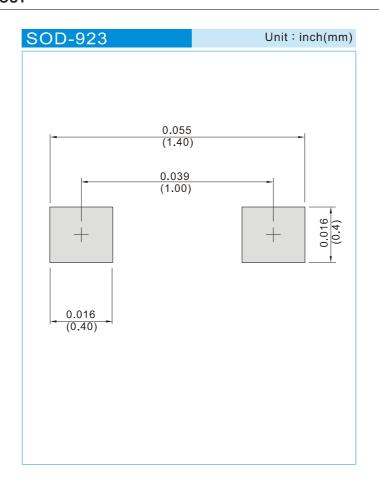








MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

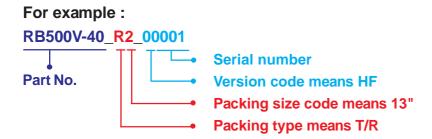
T/R - 8K per 7" plastic Reel





Part No_packing code_Version

PJSD03TM_R1_00001



Packing Code XX				Versi	on 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)	Α	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	Х				
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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