



#### **ESD PROTECTION DIODES**

#### **FEATURES**

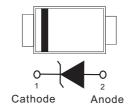
- IEC61000-4-2(ESD): ±30kV Air, ±30kV Contact (±15kV Air, ±15kV Contact for 15V)
- IEC61000-4-4(EFT): 40A(5/50nS)
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

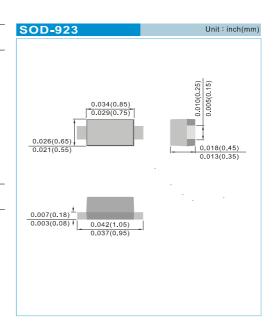
#### **MECHANICAL DATA**

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 <sub>Ј</sub> ,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.

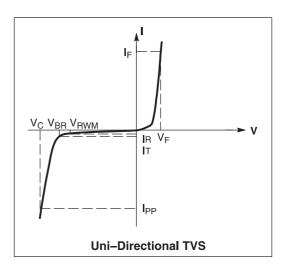
Note :  $1.FR-4 = 70 \times 60 \times 1mm$ .





# ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=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)

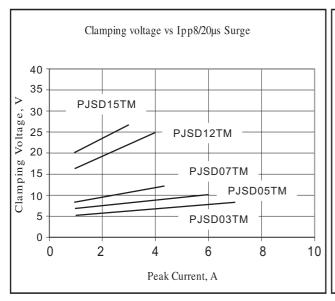
Part Number	VRWM	I R@VRWM	VвR@Iт (Note 2)	C J (Note 3)	Vc	I PP	lτ	Marking
	Max.	Max.	Min.	Max.	Max Per 8x20µs			
	V	μΑ	V	pF	V	Α	mA	
PJSD03TM	3.3	2.5	5.4	50	10	6	1.0	h
PJSD05TM	5	1	6.2	35	12	5	1.0	b
PJSD07TM	7	5	7.5	30	15	4	1.0	С
PJSD12TM	12	1	13.3	18	23	3	1.0	d
PJSD15TM	15	1	17.0	15	30	2	1.0	е

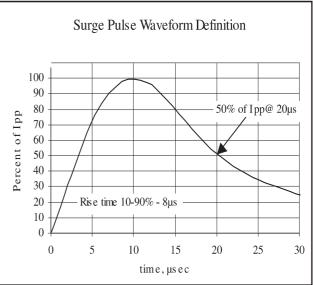
Note : 2.VBR is measured with a pulse test current  $I_T$  at an ambinet temperature of 25°C

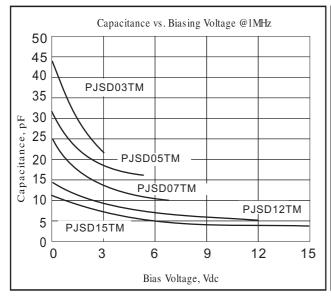
3.Capacitance at f=1MHz, VR=0V, TA=25°C

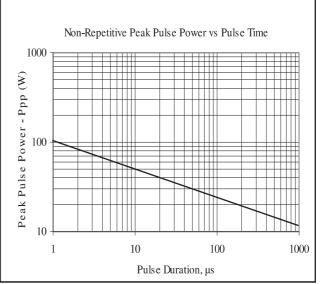








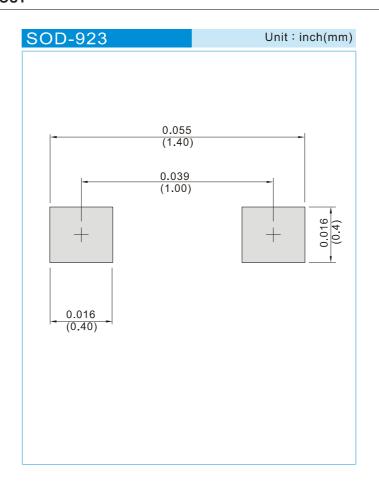








#### **MOUNTING PAD LAYOUT**



#### **ORDER INFORMATION**

• Packing information

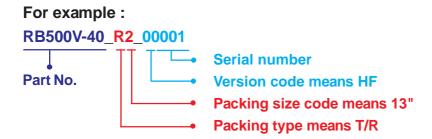
T/R - 8K per 7" plastic Reel





### Part No\_packing code\_Version

PJSD03TM\_R1\_00001



Packing Code XX				Versi	on Code XXXXX		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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				





### **Disclaimer**

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties
  of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation.
   Customers are responsible in comprehending the suitable use in particular applications.
   Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

### Panjit:

PJSD15TM\_R1\_00001