

Unit : inch(mm)

0.010(0.25)

0.018(0.45)

# PJSD03TM ~ PJSD15TM

### **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 (8/20 s Waveform)	Ррр	40	W
Lead Solder Temperature-Maximum (10 Second Duration)	T∟	260	°C
Operating Junction and Storage Temperature Range	TJ,TS⊤G	-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 :  $1.FR-4 = 70 \times 60 \times 1mm$ .



SOD-923

0.034(0.85)





# ELECTRICAL CHARACTERISTICS (TA=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@Vвwм	١r	
Breakdown Voltage @ I ⊤	VBR	
Test Current	Iт	
Forward Current	ΙF	
Forward Voltage@I F	VF	
Peak Pulse Power Dissipation	Ррр	
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	V BR@I T (Note 2)	C J (Note 3)	Vc		lт	
	Max.	Max.	Min.	Max.	Max Per 8x20 s	IFF		Marking
	V	А	V	pF	V	А	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  $l\tau$  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

### For example :

RB500V-40\_R2\_00001

Part No.

- Serial number

• Version code means HF

- Packing size code means 13"
- Packing type means T/R

Packing Code XX				Version 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~5<sup>th</sup> Code</sup>
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	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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