



# 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)

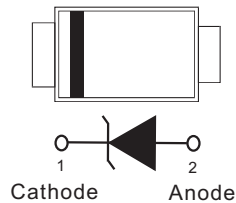
### MECHANICAL DATA

Case: SOD-923, Plastic

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

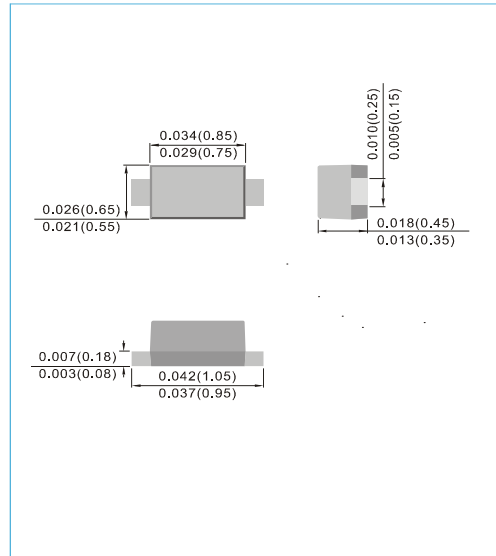
Polarity: Color band denotes cathode end

Approx.Weight: 0.00002 ounce, 0.0005 gram



### SOD-923

Unit : inch(mm)



### MAXIMUM RATINGS

Rating	Symbol	Value	Units
Peak Pulse Power Dissipation (8/20µs Waveform)	PPP	40	W
Lead Solder Temperature-Maximum (10 Second Duration)	T <sub>L</sub>	260	°C
Operating Junction and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-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.

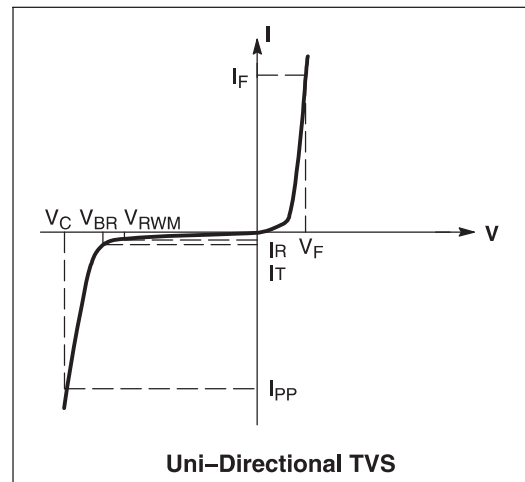
Note : 1.FR-4 = 70 x 60 x 1mm.



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### ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol
Maximum Reverse Peak Pulse Current	I <sub>PP</sub>
Clamping Voltage@I <sub>PP</sub>	V <sub>C</sub>
Working Peak Reverse Voltage	V <sub>RWM</sub>
Maximum Reverse Leakage Current@V <sub>RWM</sub>	I <sub>R</sub>
Breakdown Voltage @ I <sub>T</sub>	V <sub>BR</sub>
Test Current	I <sub>T</sub>
Forward Current	I <sub>F</sub>
Forward Voltage@I <sub>F</sub>	V <sub>F</sub>
Peak Pulse Power Dissipation	PPP
Max.Capacitance@V <sub>R</sub> =0 and f=1MHz	C <sub>J</sub>



### ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted, V<sub>F</sub>=1.1V Max. @I<sub>F</sub>=10mA)

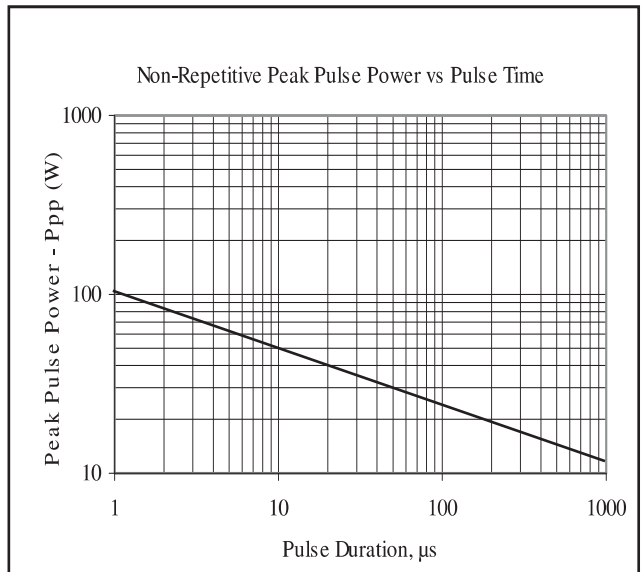
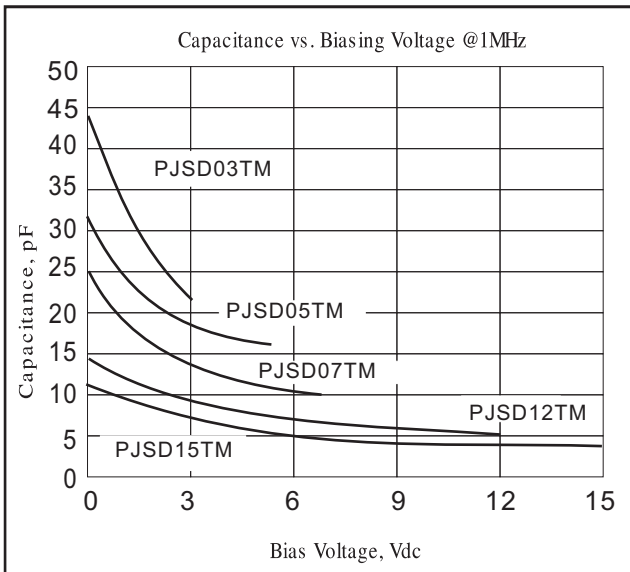
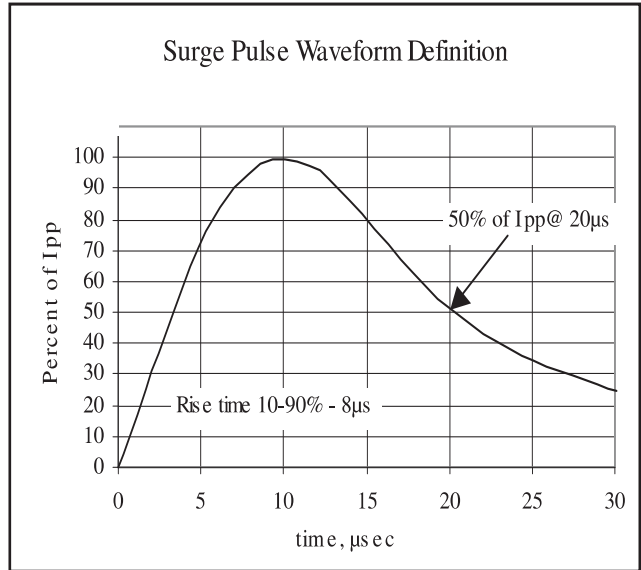
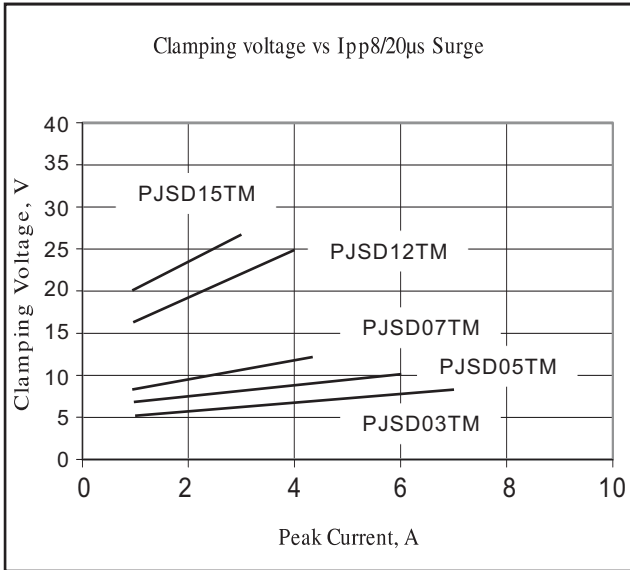
Part Number	V <sub>RWM</sub>	I <sub>R</sub> @V <sub>RWM</sub>	V <sub>BR</sub> @I <sub>T</sub> (Note 2)	C <sub>J</sub> (Note 3)	V <sub>C</sub>	I <sub>PP</sub>	I <sub>T</sub>	Marking
	Max.	Max.	Min.	Max.	Max Per 8x20μs			
	V	μA	V	pF	V			
PJSD03TM	3.3	2.5	5.4	50	10	6	1.0	h
PJSD05TM	5	1	6.2	35	12	5	1.0	b
PJSD07TM	7	5	7.5	30	15	4	1.0	c
PJSD12TM	12	1	13.3	18	23	3	1.0	d
PJSD15TM	15	1	17.0	15	30	2	1.0	e

Note : 2.V<sub>BR</sub> is measured with a pulse test current I<sub>T</sub> at an ambient temperature of 25°C

3.Capacitance at f=1MHz, V<sub>R</sub>=0V, T<sub>A</sub>=25°C



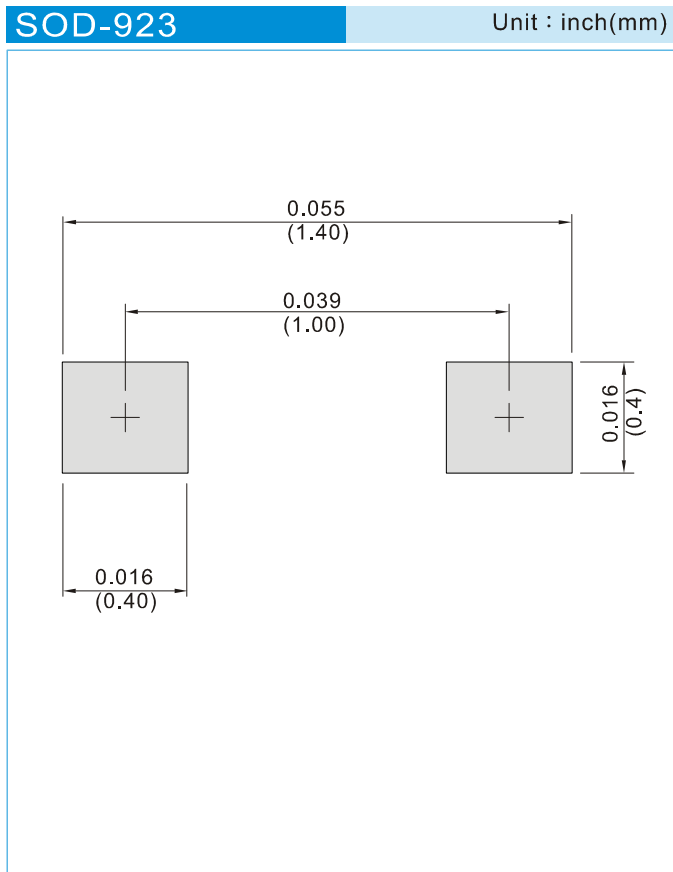
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### MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information  
T/R - 8K per 7" plastic Reel



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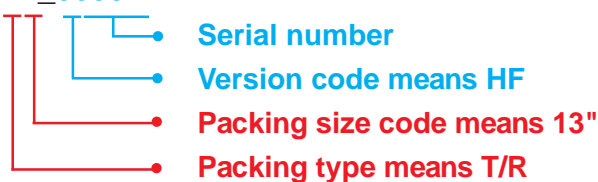
Part No\_packing code\_Version

PJSD03TM\_R1\_00001

For example :

RB500V-40\_R2\_00001

Part No.



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</sup> ~5 <sup>th</sup> 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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