



# 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)

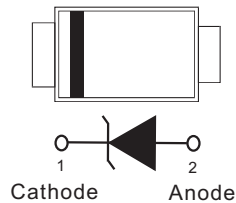
### MECHANICAL DATA

Case: SOD-923, Plastic

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

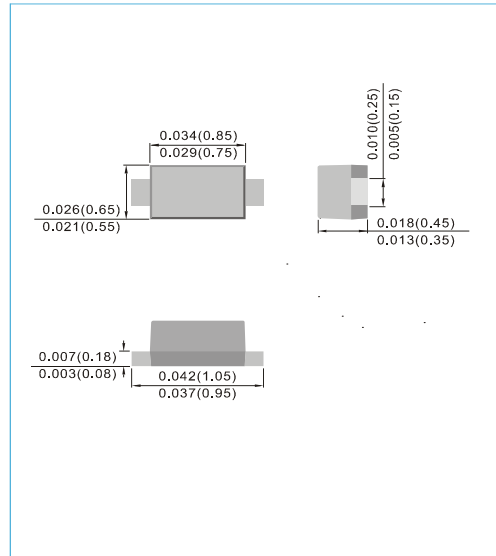
Polarity: Color band denotes cathode end

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.

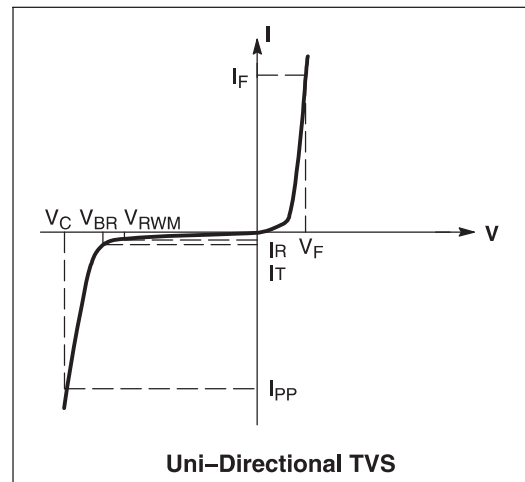
Note : 1.FR-4 = 70 x 60 x 1mm.



## PJSD03TM ~ PJSD15TM

### 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)

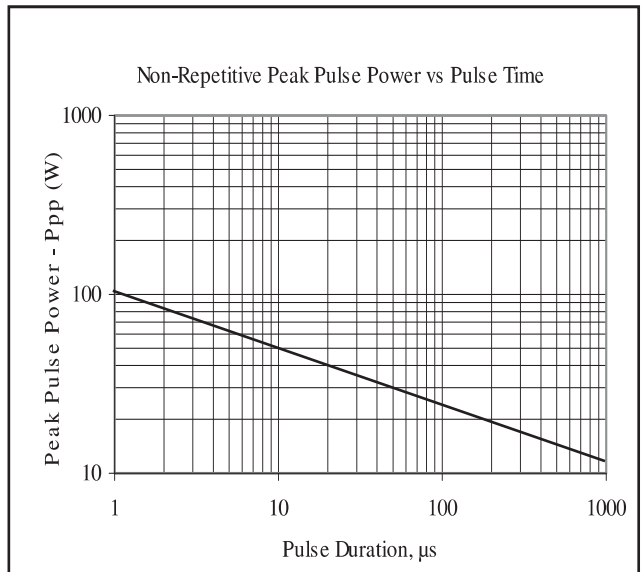
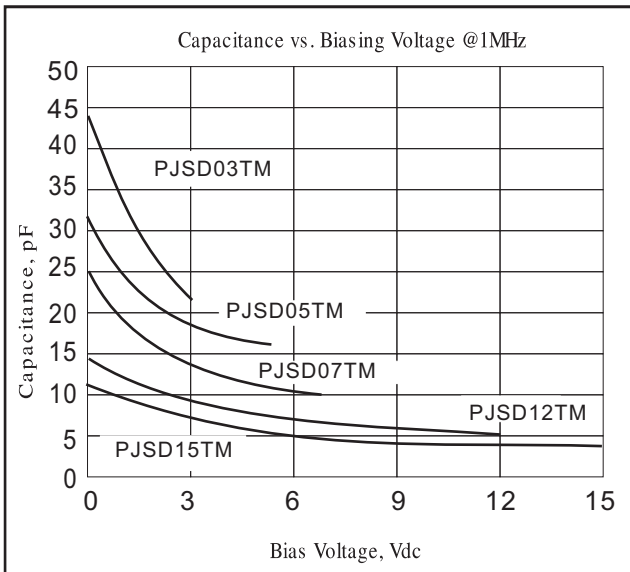
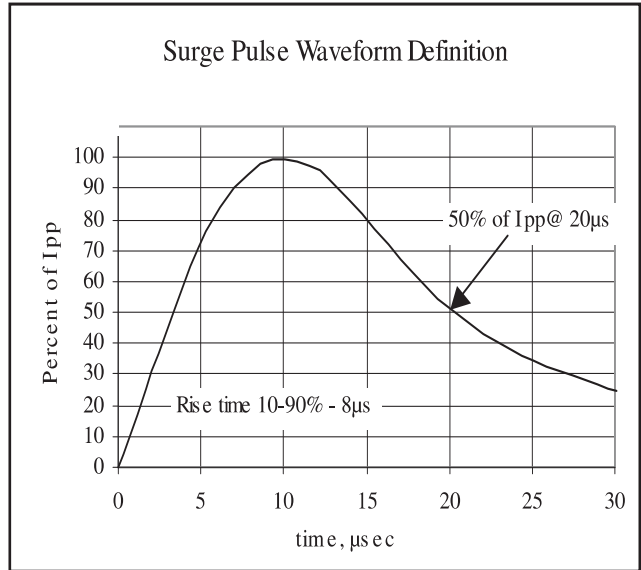
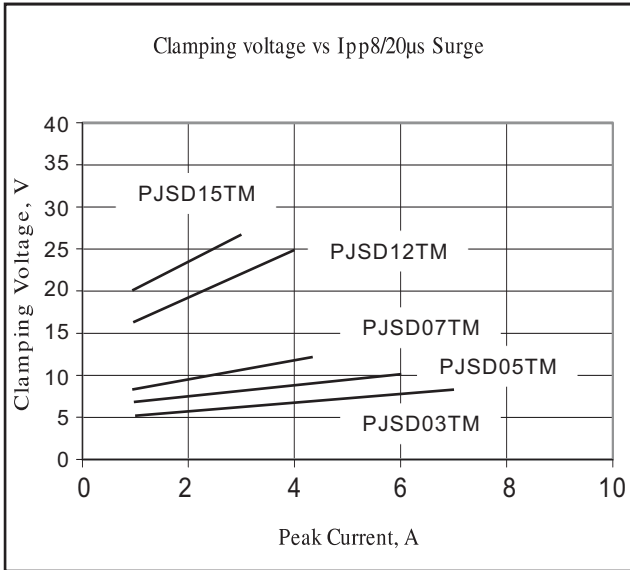
Part Number	V <sub>RWM</sub>	I <sub>R</sub> @V <sub>RWM</sub>	V <sub>BR</sub> @I <sub>T</sub> (Note 2)	C <sub>J</sub> (Note 3)	V <sub>C</sub>	I <sub>PP</sub>	I <sub>T</sub>	Marking
	Max.	Max.	Min.	Max.	Max Per 8x20μs			
	V	μA	V	pF	V			
PJSD03TM	3.3	2.5	5.4	50	10	6	1.0	h
PJSD05TM	5	1	6.2	35	12	5	1.0	b
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



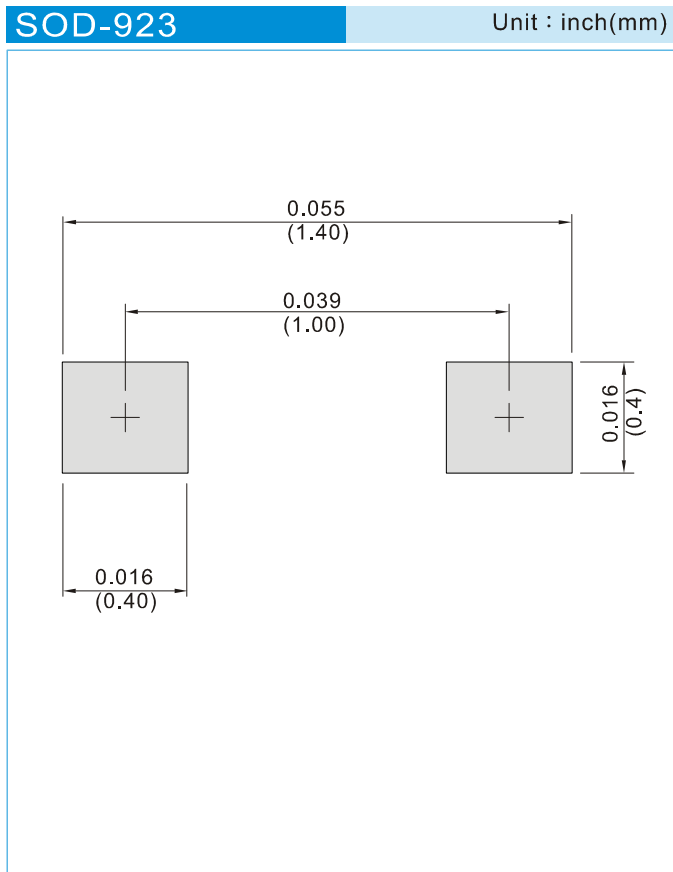
# PJSD03TM ~ PJSD15TM





## PJSD03TM ~ PJSD15TM

### MOUNTING PAD LAYOUT



### ORDER INFORMATION

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



## PJSD03TM ~ PJSD15TM

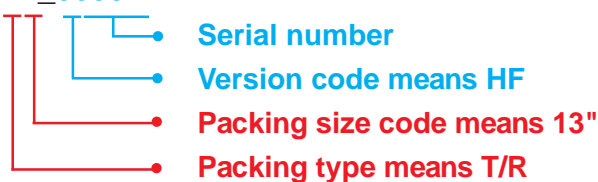
Part No\_packing code\_Version

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			



## PJSD03TM ~ PJSD15TM

---

### 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.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [ESD Suppressors / TVS Diodes](#) category:*

*Click to view products by [Panjit](#) manufacturer:*

Other Similar products are found below :

[60KS200C](#) [D18V0L1B2LP-7B](#) [D5V0F4U5P5-7](#) [NTE4902](#) [P4KE27CA](#) [P6KE11CA](#) [P6KE8.2A](#) [SA60CA](#) [SA64CA](#) [SMBJ12CATR](#)  
[SMBJ33CATR](#) [SMBJ6.5A](#) [SMBJ8.0A](#) [ESD101-B1-02ELS](#) [E6327](#) [ESD112-B1-02EL](#) [E6327](#) [ESD7451N2T5G](#) [19180-510](#) [CPDT-5V0USP-](#)  
[HF](#) [3.0SMCJ33CA-F](#) [3.0SMCJ36A-F](#) [HSPC16701B02TP](#) [JANTX1N6126A](#) [D3V3Q1B2DLP3-7](#) [D55V0M1B2WS-7](#) [SCM1293A-04SO](#)  
[ESD200-B1-CSP0201](#) [E6327](#) [SM12-7](#) [CEN955](#) [W/DATA](#) [VESD12A1A-HD1-GS08](#) [CPDQC5V0-HF](#) [D1213A-01LP4-7B](#) [ESD101-B1-02EL](#)  
[E6327](#) [AOZ8808DI-03](#) [5KP15A](#) [5KP48A](#) [5KP90A](#) [ESD3V3D7-TP](#) [15KPA36A-LF](#) [P4KE56CA](#) [P4KE68A](#) [P4KE91CATR](#) [P6KE120A](#)  
[P6KE13CA](#) [P6KE43CA](#) [P6KE6.8CA](#) [P6KE8.2](#) [P6SMBJ20CA](#) [JANTX1N6072A](#) [SR2835ESKG](#) [SA90CA](#)