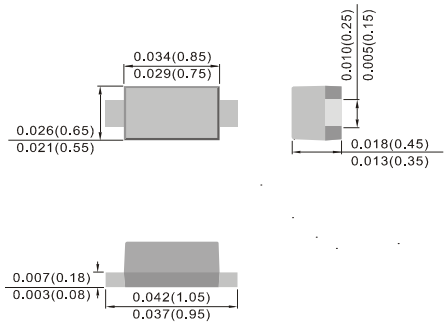
PJSD03TM ~ PJSD15TM

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)

SOD-923 Unit : inch(mm)



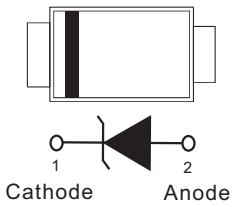
MECHANICAL DATA

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)	P_{PP}	40	W
Lead Solder Temperature-Maximum (10 Second Duration)	T_L	260	°C
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-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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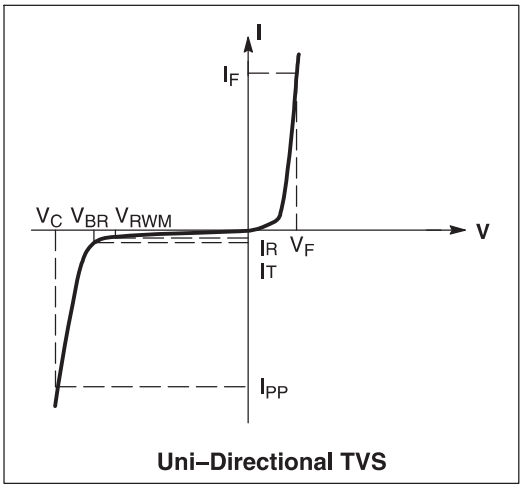
ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

Parameter	Symbol
Maximum Reverse Peak Pulse Current	I_{PP}
Clamping Voltage@I_{PP}	V_C
Working Peak Reverse Voltage	V_{RWM}
Maximum Reverse Leakage Current@V_{RWM}	I_R
Breakdown Voltage @ I_T	V_{BR}
Test Current	I_T
Forward Current	I_F
Forward Voltage@I_F	V_F
Peak Pulse Power Dissipation	P_{PP}
Max.Capacitance@V_R=0 and f=1MHz	C_J



Uni–Directional TVS

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted, V_F=1.1V Max.@I_F=10mA)

Part Number	V_{RWM}	I_R@V_{RWM}	V_{BR}@I_T (Note 2)	C_J (Note 3)	V_C	I_{PP}	I_T	Marking
	Max.	Max.	Min.	Max.	Max Per 8x20μs			
	V	μA	V	pF	V	A	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	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_{BR} is measured with a pulse test current I_T at an ambinet temperature of 25°C

3.Capacitance at f=1MHz, V_R=0V, T_A=25°C

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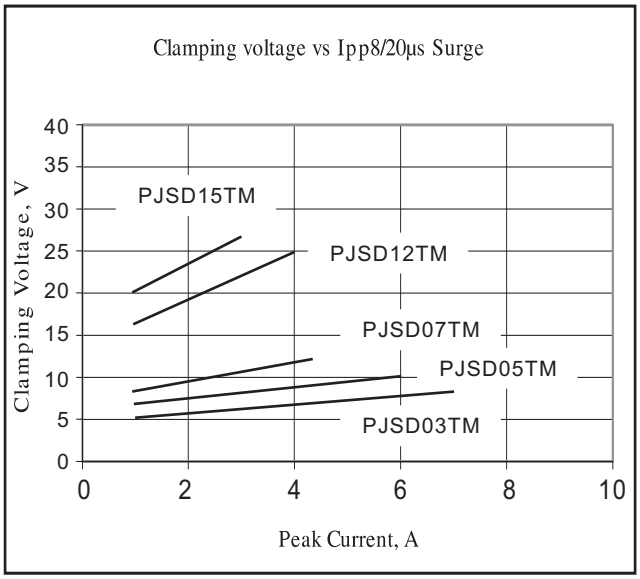
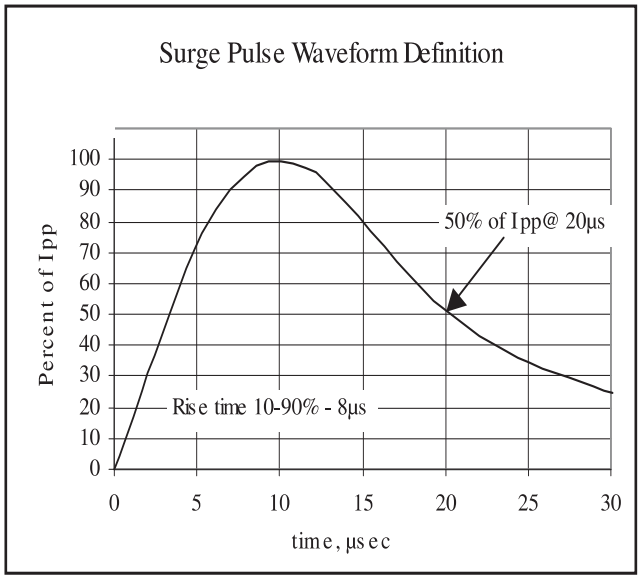
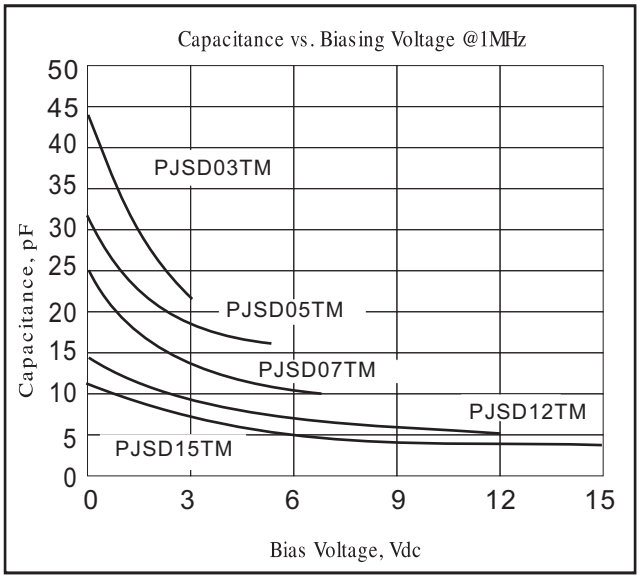
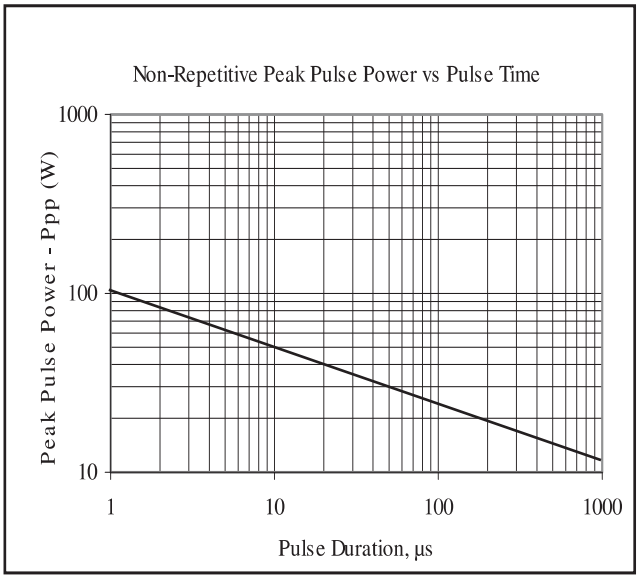




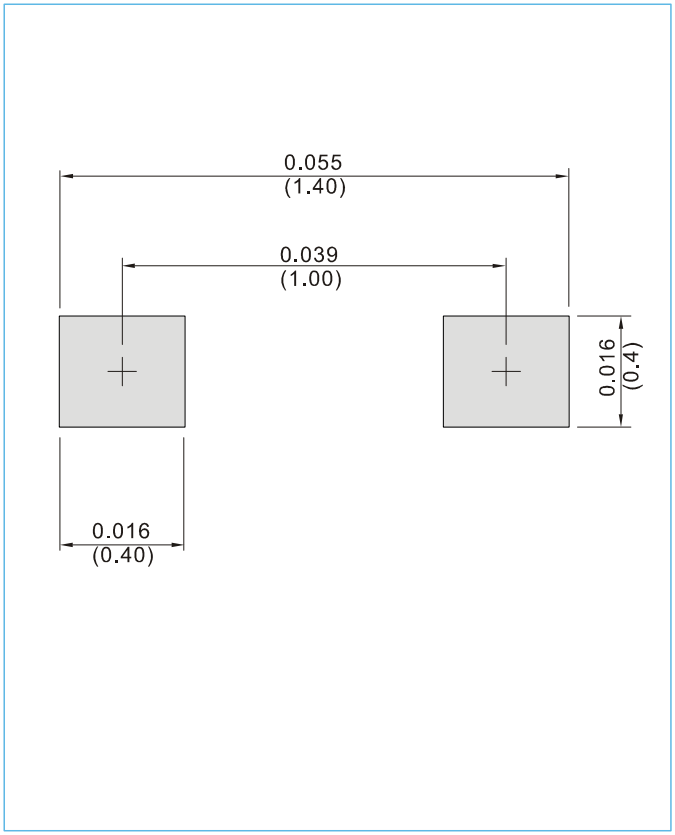




PJSD03TM ~ PJSD15TM

MOUNTING PAD LAYOUT

SOD-923 Unit : inch(mm)



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.
- Serial number
- Version code means HF
- Packing size code means 13"
- Packing type means T/R

Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th 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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