PJSD03TM ~ PJSD15TM

ESD PROTECTION DIODES

FEATURES

- IEC61000-4-2 Level 4 ESD Protection
- In compliance with EU RoHS 2002/95/EC directives

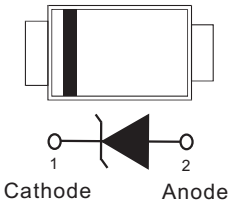
MECHANICAL DATA

Case: SOD-923, Plastic

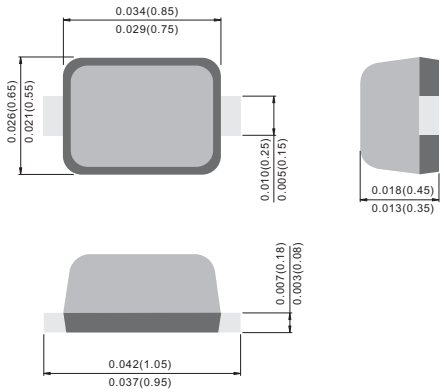
Terminals: Solderable per MIL-STD-750, Method 2026

Polarity : Color band cathode

Approx.Weight : 0.0004gram



SOD-923 Unit: inch (mm)



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

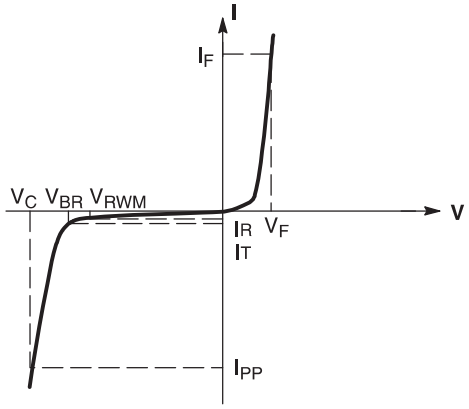
Stresses exceeding Maximum Ratings may damage the device. Maximum Rating are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

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

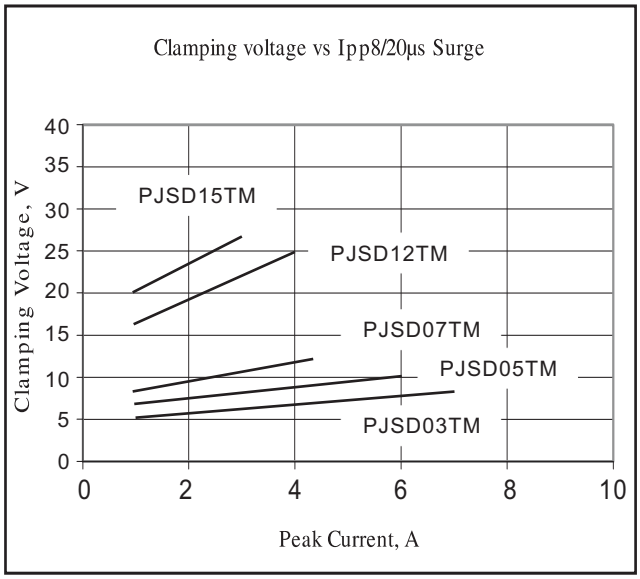
ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted, V_F=1.1V Max.@I_F=10mA)

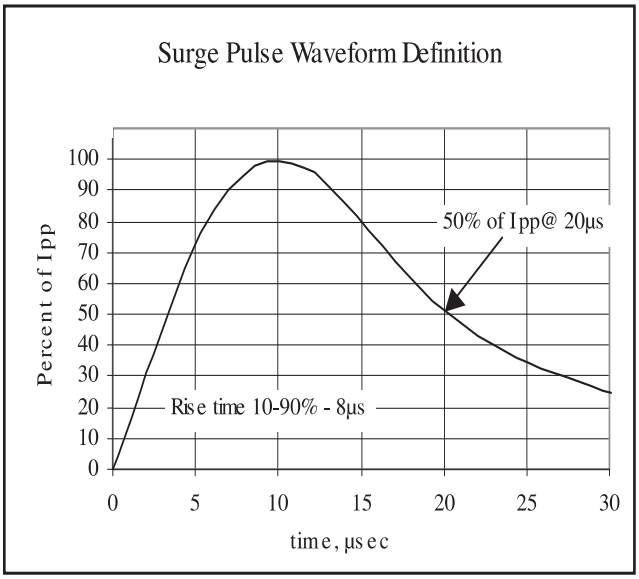
Part Number	V_{RWM}	I_R@V_{RWM}	V_{BR}@I_T (Note 2)	C_J (Note 3)	V_C	I_{PP}	I_T	Marking
	Max.	Max.	Min.	Max.	Max Per 8x20μs			
	V	μA	V	pF	V	A	mA	
PJSD03TM	3.3	2.5	5.4	50	10	6	1.0	h
PJSD05TM	5	1	6.2	35	12	5	1.0	b
PJSD07TM	7	5	7.5	30	15	4	1.0	c
PJSD12TM	12	1	13.3	18	23	3	1.0	d
PJSD15TM	15	1	17.0	15	30	2	1.0	e

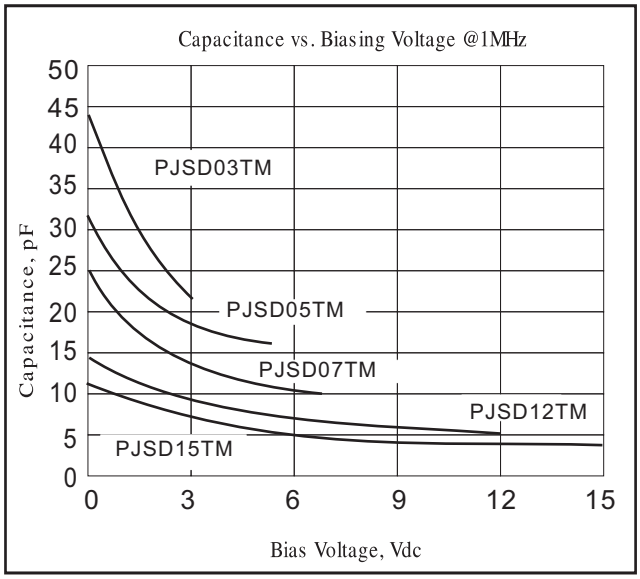
Note : 2.V_{BR} is measured with a pulse test current I_T at an ambinet temperature of 25°C

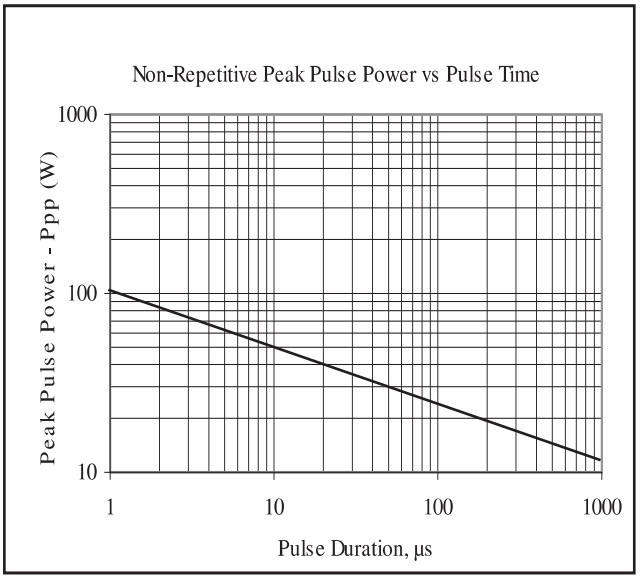
3.Capacitance at f=1MHz, V_R=0V, T_A=25°C

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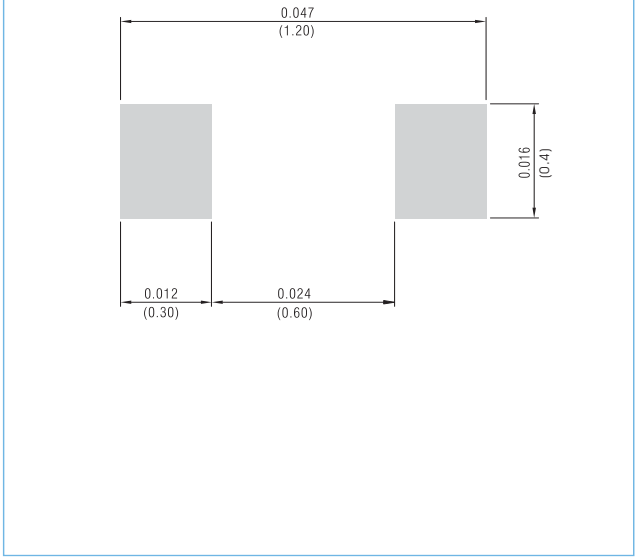




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MOUNTING PAD LAYOUT

SOD-923 Unit: inch (mm)



ORDER INFORMATION

- Packing information

  T/R - 8K per 7" plastic Reel

LEGAL STATEMENT

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