



PJSD05MLTM

ESD PROTECTION DIODES

The PJSD05MLTM is designed to protect voltage sensitive components from ESD. Excellent clamping capability, low leakage, and fast response time provide best in class protection on designs that are exposed to ESD.

VOLTAGE 5 Volt **POWER** 90 Watt

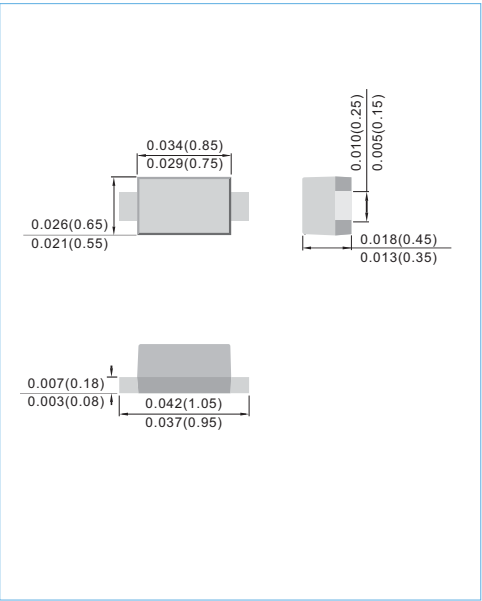
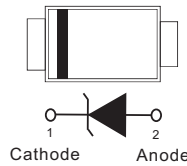
SOD-923 Unit : inch(mm)

FEATURES

- Low leakage
- IEC61000-4-2 Level 4 ESD Protection
- IEC61000-4-4 Level 4 EFT Protection 80A ($t_p=5/50ns$)
- 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, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00002 ounces, 0.0005 grams
- Polarity: Color band cathode



MAXIMUM RATINGS

Rating	Symbol	Value	Units
Peak Power Dissipation 8/20 Pulse	P_{PM}	90	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

ELECTRICAL CHARACTERISTICS

($T_A=25^\circ\text{C}$ UNLESS OTHERWISE NOTED, $V_F=0.9\text{V Max.}@I_F=10\text{mA}$)

Device	$V_{RWM}(V)$	$I_R(\mu A)@V_{RWM}$	$V_{BR}(V)@I_T$ (Note 1)	I_T	$V_C(V)@I_{PP}^+ \text{ Max}$	$I_{PP}(A)^+$	$P_{PK}(W)^+$	$C_j(pF)$	Marking Code
	Max	Max	Min	mA	Max	Max	Max	Typ	
PJSD05MLTM	5.0	1.0	6.2	1.0	10	9	90	65	R

NOTES:

*Other voltages available upon request

1. V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25°C



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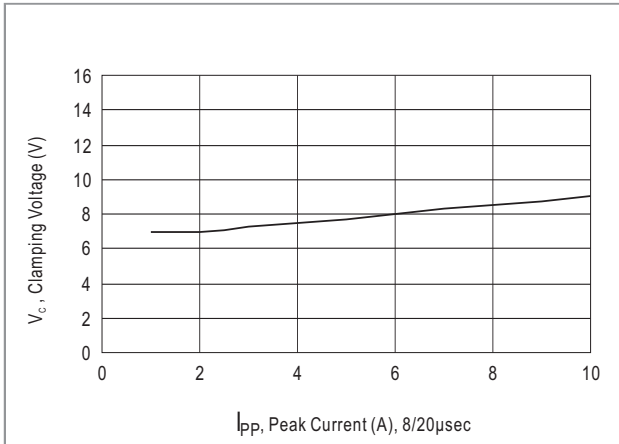


FIG. 1- Clamping Voltage

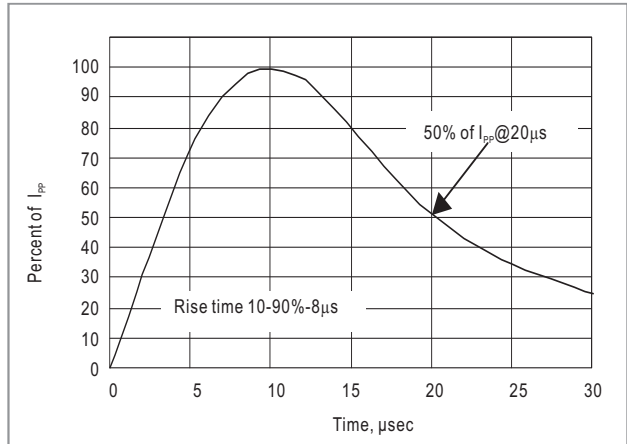


FIG. 2- Surge Pulse Waveform Definition

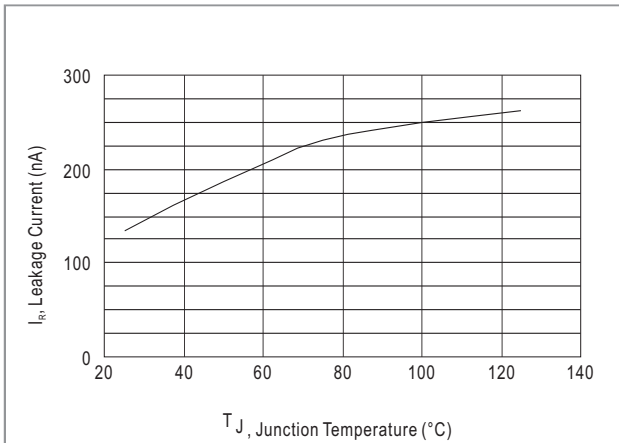


FIG. 3- Typical Reverse Characteristics

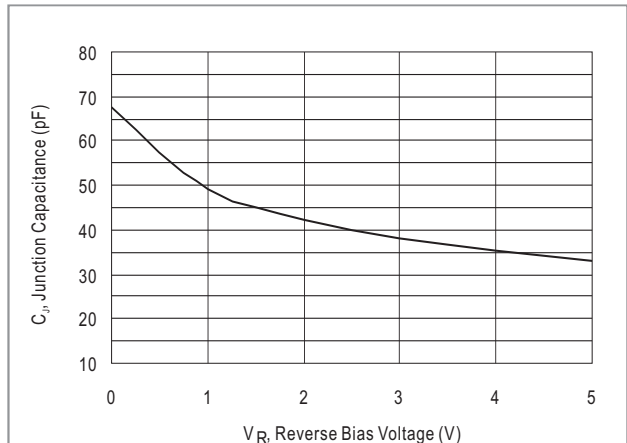
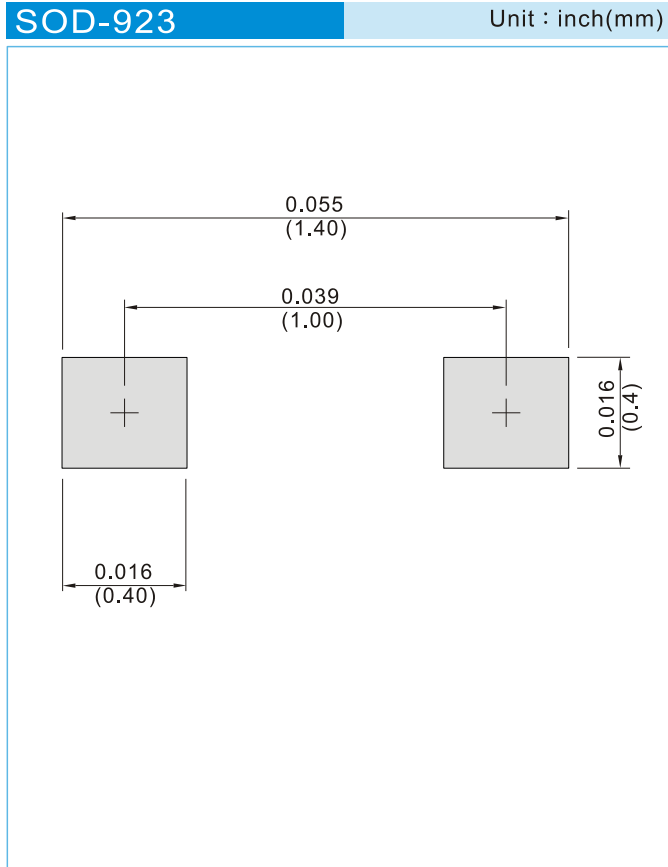


FIG. 4- Typical Junction Capacitance



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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

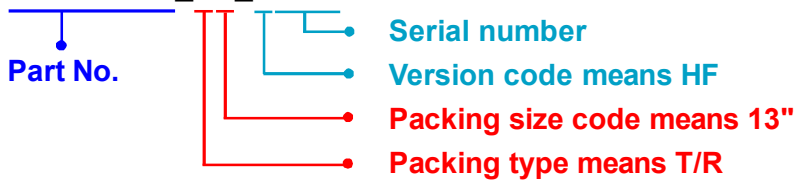


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Part No_packing code_Version
PJSD05MLTM_R1_00001

For example :

RB500V-40_R2_00001



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