



PJSD05MLFN2

ESD PROTECTION DIODES

The PJSD05MLFN2 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 Volts **POWER** 90 Watts

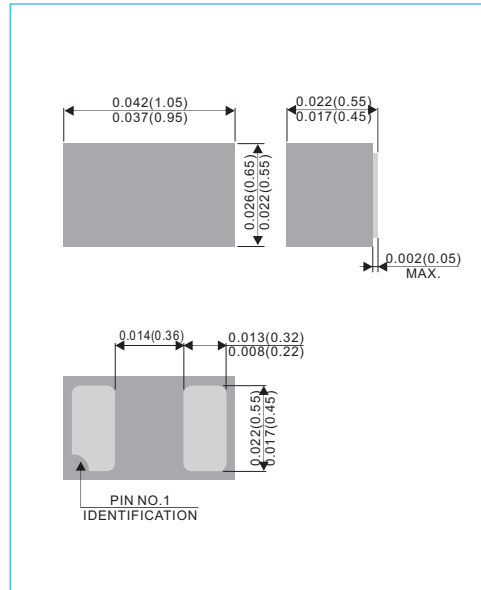
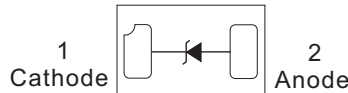
DFN 2L Unit : inch(mm)

FEATURES

- Low leakage
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)
- IEC61000-4-2 Level 4 ESD Protection
- IEC61000-4-4 Level 4 EFT Protection 80A ($t_p=5/50ns$)

MECHANICAL DATA

- Case: DFN 2L, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band cathode
- Weight: 0.00004 ounces, 0.0011grams



MAXIMUM RATINGS

Rating	Symbol	Value	Units
Peak Power Dissipation 8/20 Surge Pulse	P_{PM}	90	W
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, $V_f=0.9V$ Max.@ $I_f=10mA$)

Device	$V_{RWM}(V)$	$I_R(\mu A)@V_{RWM}$	$V_{BR}(V)@I_T$ (Note 1)	I_T	$V_C(V)@MAX I_{PP}^+$	$I_{PP}(A)^+$	$PPK(W)^+$	$C_J(pF)$	Marking Code
	Max	Max	Min	mA	Max	Max	Max	Typ	
PJSD05MLFN2	5.0	1.0	6.2	1.0	10	9	90	65	BR

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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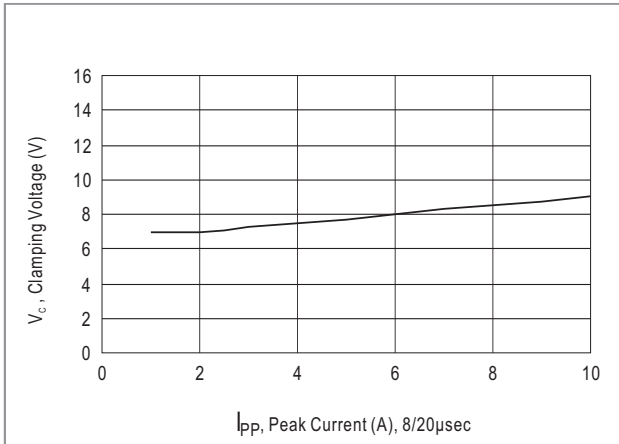


FIG. 1- Clamping Voltage

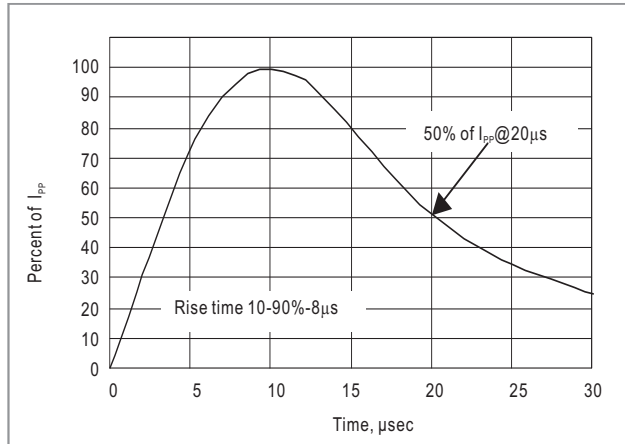


FIG. 2- Surge Pulse Waveform Definition

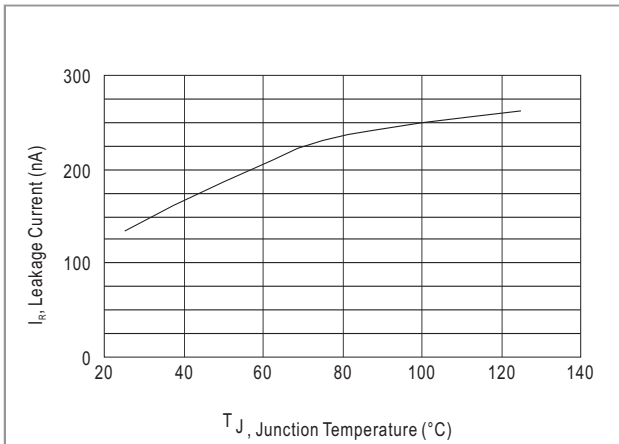


FIG. 3- Typical Reverse Characteristics

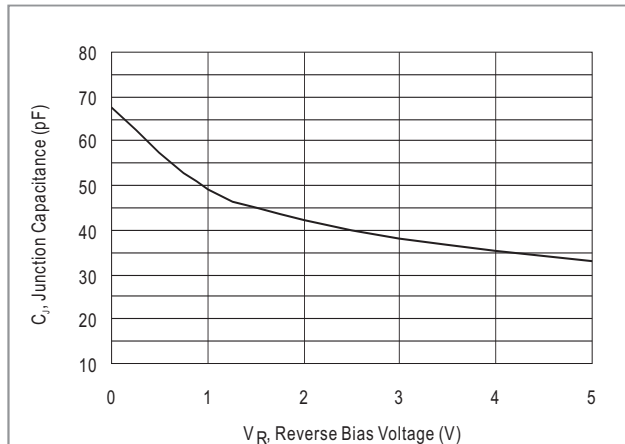


FIG. 4- Typical Junction Capacitance

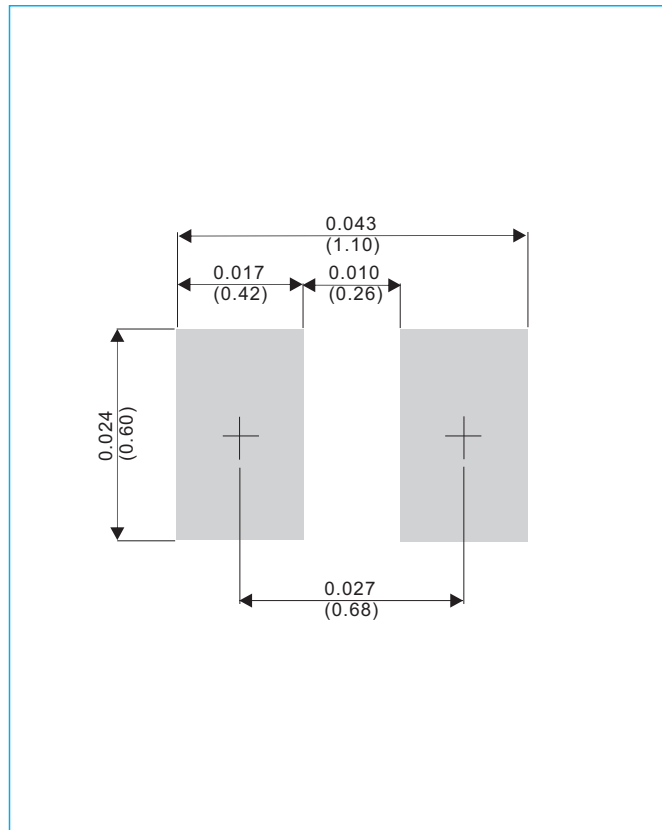


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MOUNTING PAD LAYOUT

DFN 2L

Unit : inch(mm)



ORDER INFORMATION

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

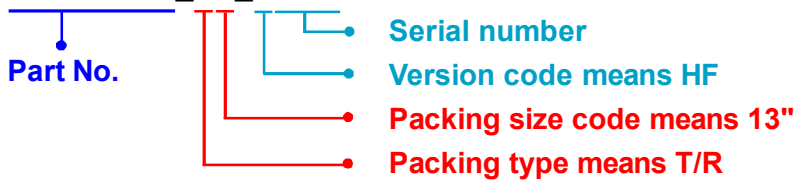


PJSD05MLFN2

Part No_packing code_Version
PJSD05MLFN2_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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