

PJSD05LFN2

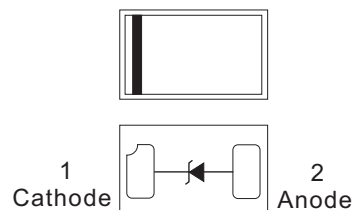
ESD PROTECTION DIODES

FEATURES

- IEC61000-4-2 Level 4 ESD Protection
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

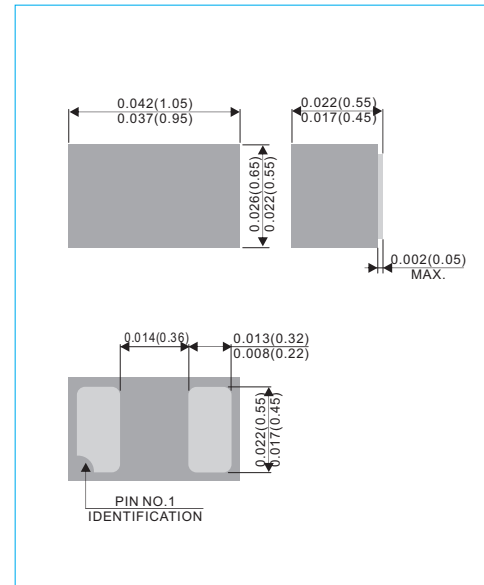
MECHANICAL DATA

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



DFN 2L

Unit : inch(mm)



MAXIMUM RATINGS

Rating	Symbol	Value	Units
Total Power Dissipation on FR-4 Board (Note 1)@T _A =25°C	P _D	250	mW
Peak Power Dissipation 8/20 Surge Pulse	P _{PM}	40	W
Thermal Resistance Junction to Ambient	R _{θJA}	500	°C/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

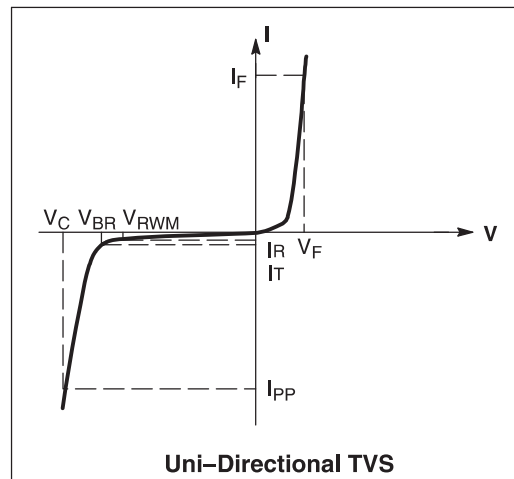
Stresses exceeding Maximum Ratings may damage the device. Maximum Rating are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

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
Maximum Peak Power Dissipation	P _{PM}
Max.Capacitance@V _R =0 and f=1MHz	C



ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

Part Number	V _{RWM}	I _R @V _{RWM}	V _{BR} @I _T (Note 2)	C (Note 3)	V _C	I _{PP}	I _T	Marking
	Max.	Max.	Min.	Max.	Max Per 8/20μs			
	V	μA	V	pF	V			
PJSD05LFN2	5	1	6.2	35	9.8	4	1.0	BC

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

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

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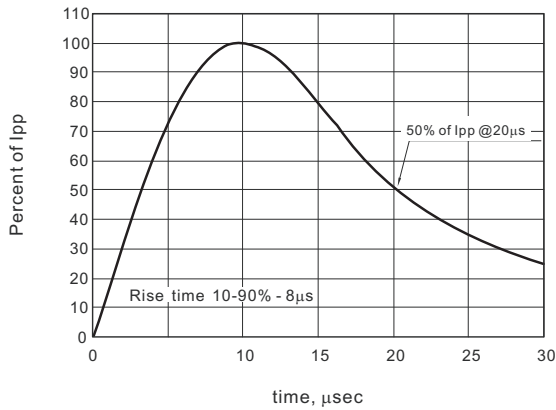


Fig.1 8/20µs Peak Pulse Current Waveform

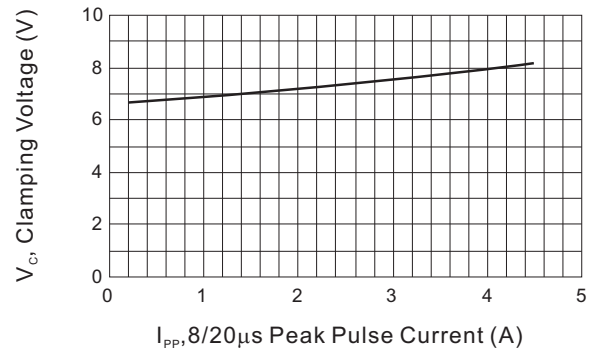


Fig.2 Typical Peak Clamping Voltage

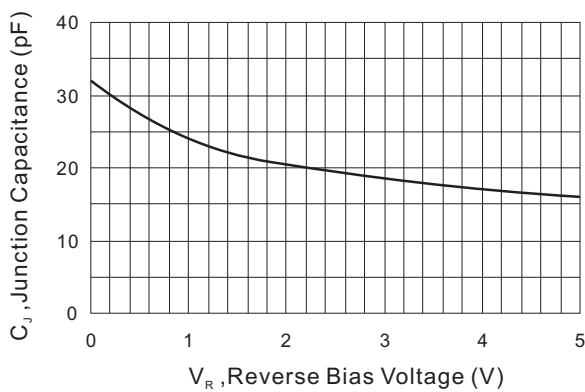


Fig.3 Typical Junction Capacitance

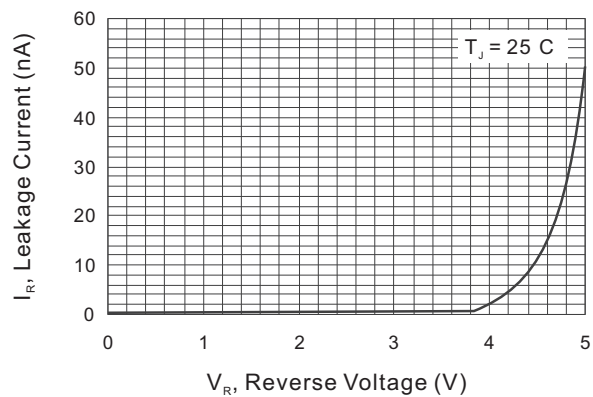


Fig.4 Typical Reverse Characteristics

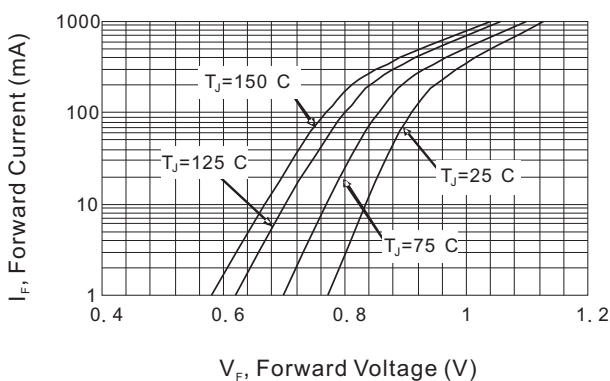


Fig.5 Typical Forward Characteristics

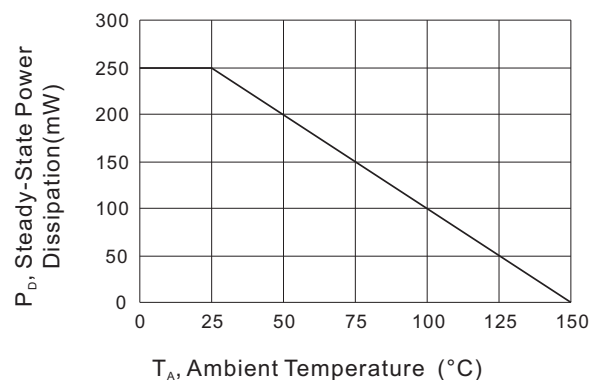


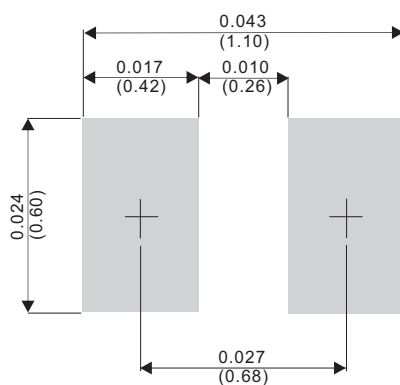
Fig.6 Power Derating Curve

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MOUNTING PAD LAYOUT

DFN 2L

Unit : inch(mm)



ORDER INFORMATION

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

PJSD05LFN2

Part No_packing code_Version

PJSD05LFN2_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	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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