



PJSD05LFN2

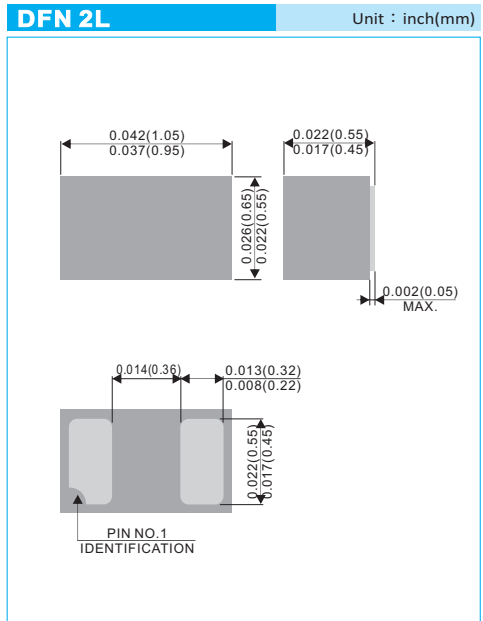
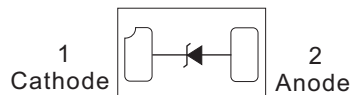
ESD PROTECTION DIODES

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



MAXIMUM RATINGS

Rating	Symbol	Value	Units
Total Power Dissipation on FR-4 Board (Note 1)@ $T_A=25^{\circ}\text{C}$	P_D	250	mW
Peak Power Dissipation 8/20 Surge Pulse	P_{PM}	40	W
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	$^{\circ}\text{C/W}$
Lead Solder Temperature-Maximum (10 Second Duration)	T_L	260	$^{\circ}\text{C}$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^{\circ}\text{C}$

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.

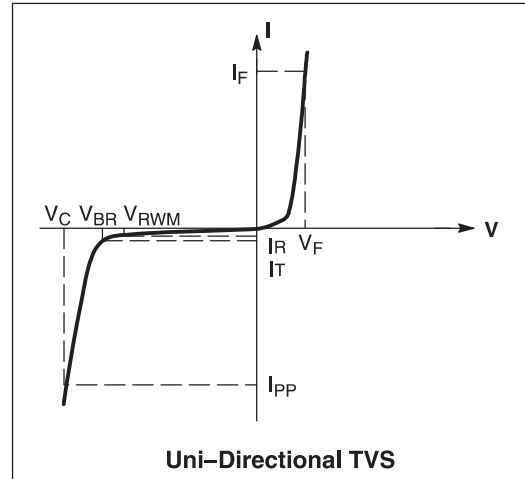
Note : 1.FR-4 = 70 x 60 x 1mm.



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ELECTRICAL CHARACTERISTICS (TA=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 $f=1\text{MHz}$	C



ELECTRICAL CHARACTERISTICS (TA=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 8/20 μs			
	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 $f=1\text{MHz}$, $V_R=0\text{V}$, $T_A=25^\circ\text{C}$



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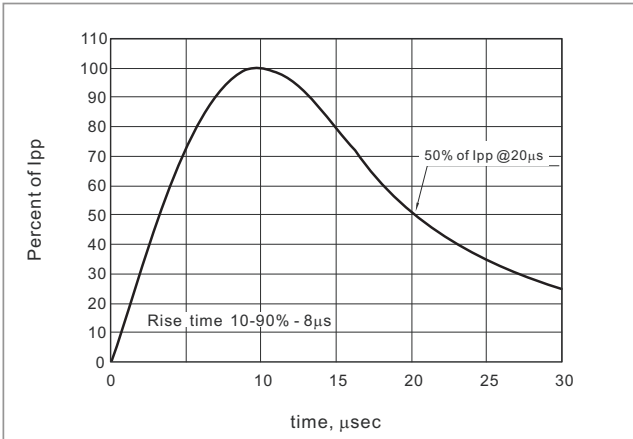


Fig.1 8/20µs Peak Pulse Current Waveform

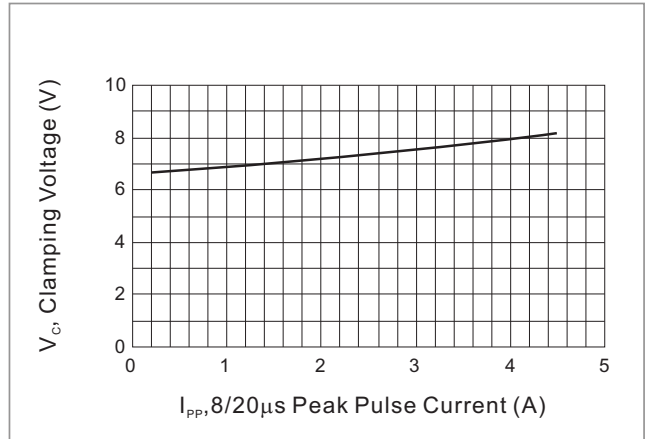


Fig.2 Typical Peak Clamping Voltage

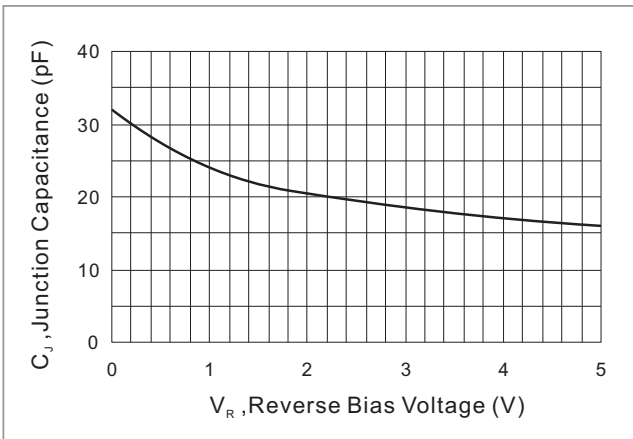


Fig.3 Typical Junction Capacitance

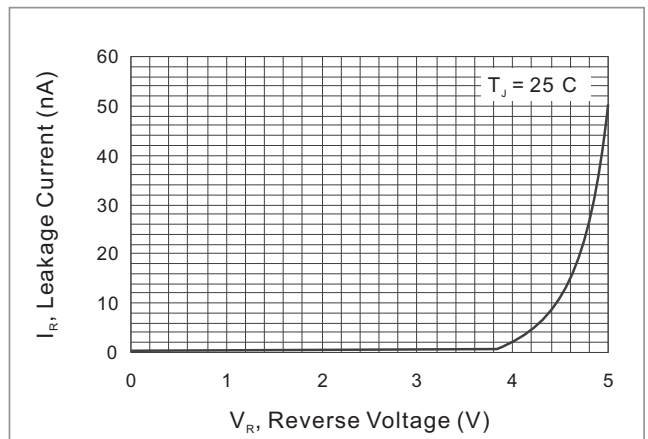


Fig.4 Typical Reverse Characteristics

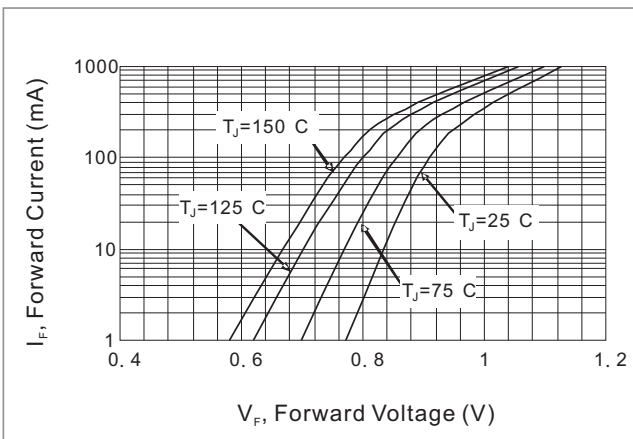


Fig.5 Typical Forward Characteristics

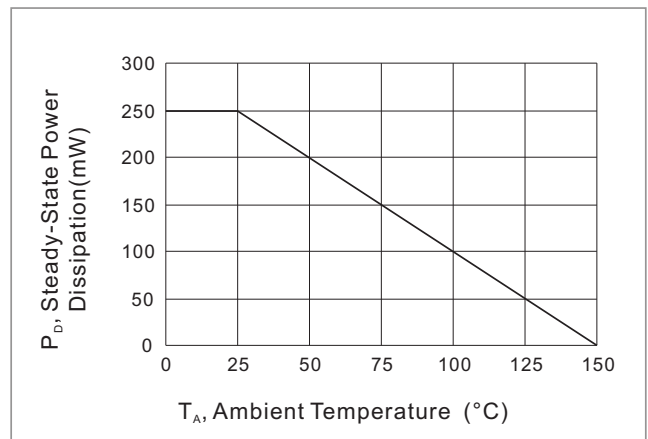


Fig.6 Power Derating Curve

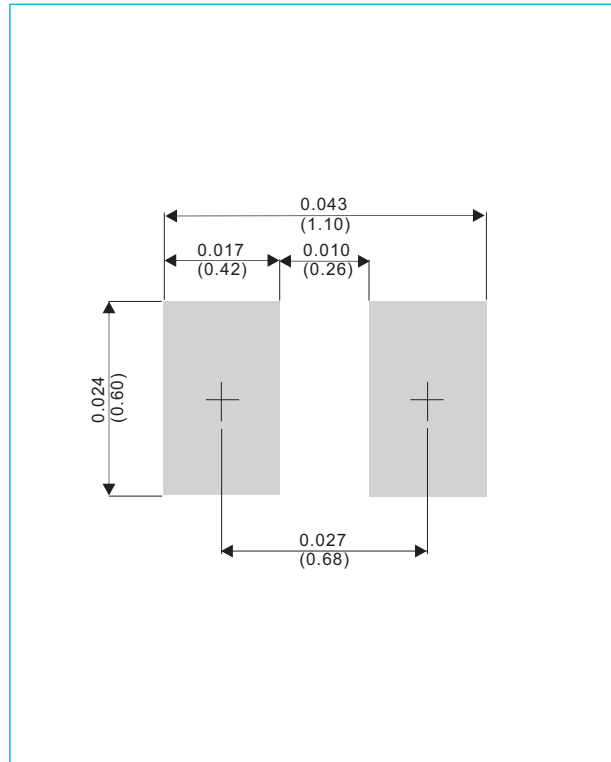


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MOUNTING PAD LAYOUT

DFN 2L

Unit : inch(mm)



ORDER INFORMATION

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

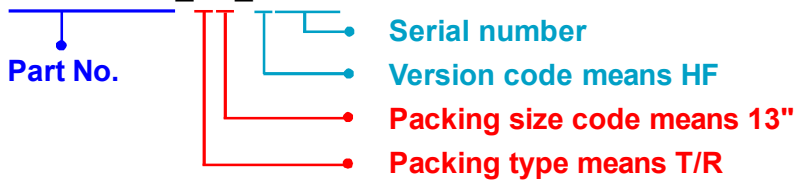


PJSD05LFN2

Part No_packing code_Version
PJSD05LFN2_R1_00001

For example :

RB500V-40_R2_00001



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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