



PJE24VM5FN2

ESD Protection

V_{RWM}

24 V

Features

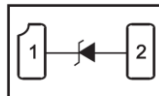
- Unidirectional ESD protection of one line
- IEC61000-4-2(ESD): $\pm 30\text{kV}$ Air, $\pm 30\text{kV}$ Contact Compliance
- IEC61000-4-4(EFT): 40A(5/50nS)
- IEC61000-4-5(Lightning): 3A(8/20 μ S)
- Low leakage current, maximum of 0.1 μ A at rated voltage
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: DFN 2L, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00004 ounces, 0.0011 grams
- Marking: AM

Applications

- Mobile Phones and accessories
- Desktops, Servers and Notebook
- Hand held portable
- Digital Cameras
- Computer Interfaces Protection
- Serial and Parallel Ports Protection
- Control Signal Lines Protection

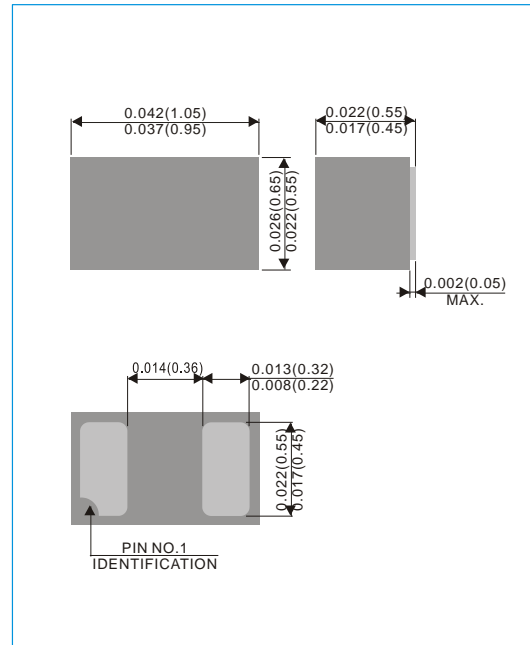


Cathode Anode

Fig.30(Top View)

DFN 2L

Unit : inch(mm)



Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Peak Pulse Power Dissipation($t_p=8/20\mu\text{s}$)	P_{PP}	100	W
ESD IEC61000-4-2(Air)	V_{ESD}	± 30	kV
ESD IEC61000-4-2(Contact)		± 30	
Operating Junction Temperature	T_J	-55 to +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$



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Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	V_{RWM}	-	-	-	24	V
Reverse Breakdown Voltage	V_{BR}	$I_{BR}=1\text{mA}$	25	-	29	V
Reverse leakage current	I_R	$V_R=24\text{V}$	-	-	0.1	μA
Clamping Voltage	V_{CL}	$I_{PP}=1\text{A}$, $t_p=8/20\mu\text{s}$	-	30	40	V
		$I_{PP}=3\text{A}$, $t_p=8/20\mu\text{s}$	-	35	-	
Clamping Voltage TLP (Notes 1)	V_{CL}	$I_{PP}=4\text{A}$, $t_p=100\text{ns}$	-	30.6	-	V
		$I_{PP}=8\text{A}$, $t_p=100\text{ns}$	-	32.5	-	
Dynamic Resistance (Notes 1)	R_{DYN}	$t_p=100\text{ns}$	-	0.48	-	Ω
Off State Junction Capacitance	C_J	0Vdc Bias $f=1\text{MHz}$	-	-	50	pF

NOTES :

1. Testing using Transmission Line Pulse (TLP) conditions: $Z_0 = 50\Omega$, $t_p = 100\text{ ns}$.



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TYPICAL CHARACTERISTIC CURVES

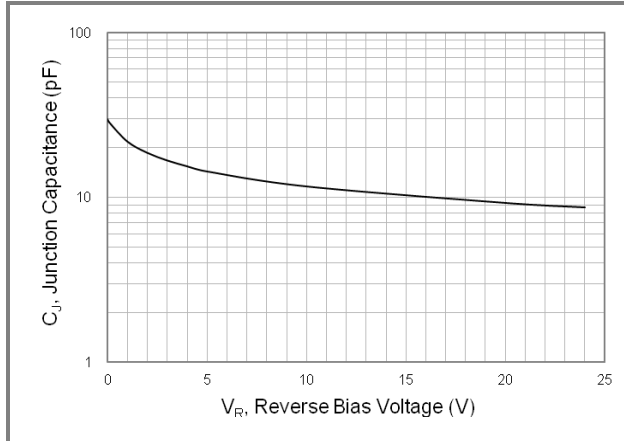


Fig.1 Typical Junction Capacitance

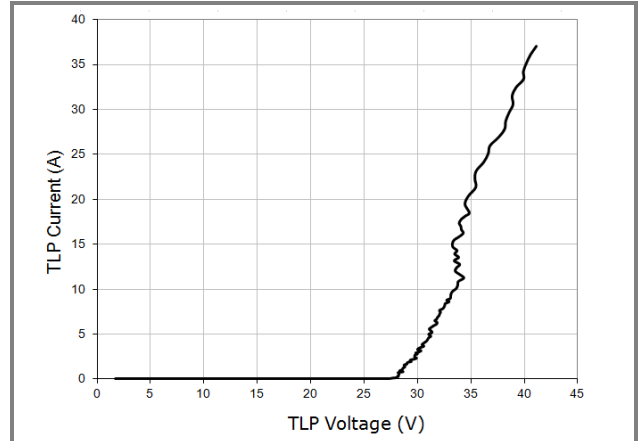


Fig.2 Transmission Line Pulsing (TLP) Measurement

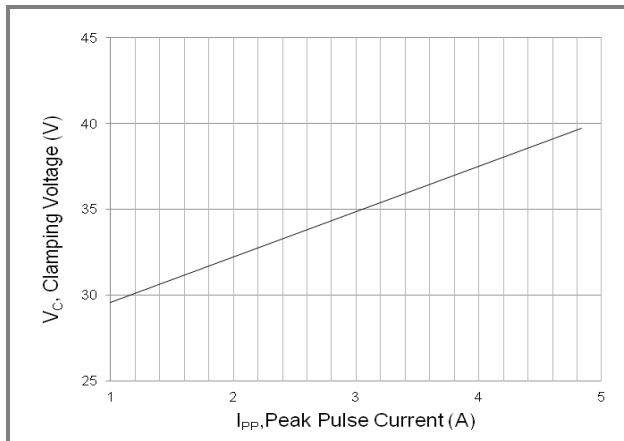


Fig.3 Typical Peak Clamping Voltage(8/20 μ s)

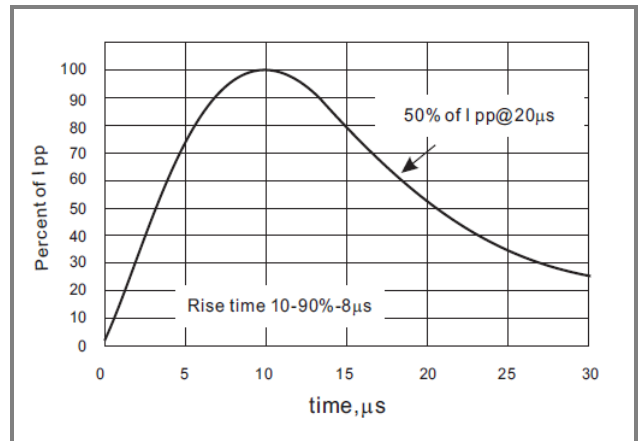


Fig.4 8/20 μ s Pulse Waveform



PJE24VM5FN2

PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
PJE24VM5FN2_R1_00001	DFN 2L	8K pcs / 7" reel	AM	Halogen free

MOUNTING PAD LAYOUT

DFN 2L

Unit : inch(mm)

