



PJE24VM5FN2

ESD Protection

V_{RWM}	24 V
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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(8/20uS)
- Low leakage current, maximum of 0.1uA at rated voltage
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : DFN1006-2L Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0006 grams

DFN1006-2L



Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
ESD IEC61000-4-2(Air)	V_{ESD}	± 30	kV
ESD IEC61000-4-2(Contact)		± 30	
Operating Junction Temperature Range	T_J	-55~125	°C
Storage Temperature Range	T_{STG}	-55~150	°C



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Electrical Characteristics (T_A = 25°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 mA	25	-	29	V
Reverse Leakage Current	I _R	V _R = 24 V	-	-	0.1	uA
Clamping Voltage	V _{CL}	I _{PP} = 1 A, t _P = 8/20 us	-	30	40	V
		I _{PP} = 3 A, t _P = 8/20 us	-	35	-	V
Clamping Voltage TLP ^(Note 1)	V _{CL}	I _{PP} = 4 A, t _P = 100 ns	-	30.6	-	V
		I _{PP} = 8 A, t _P = 100 ns	-	32.5	-	V
Dynamic Resistance ^(Note 1)	R _{DYN}	t _P = 100 ns	-	0.48	-	Ω
Off State Junction Capacitance	C _J	0 Vdc Bias f = 1 MHz	-	-	50	pF

NOTES :

1. Testing using Transmission Line Pulse (TLP) conditions : Z₀ = 50 Ω, t_P = 100 ns.



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TYPICAL CHARACTERISTIC CURVES

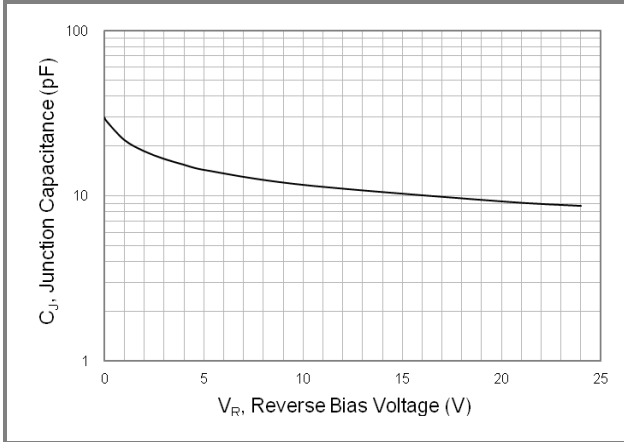


Fig.1 Typical Junction Capacitance

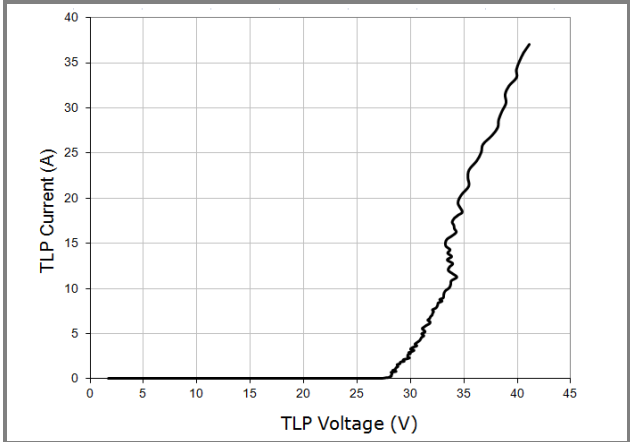


Fig.2 Transmission Line Pulsing (TLP) Measurement

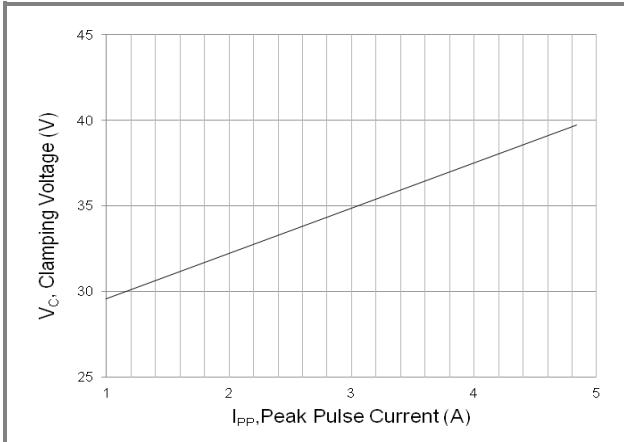


Fig.3 Typical Peak Clamping Voltage(8/20us)

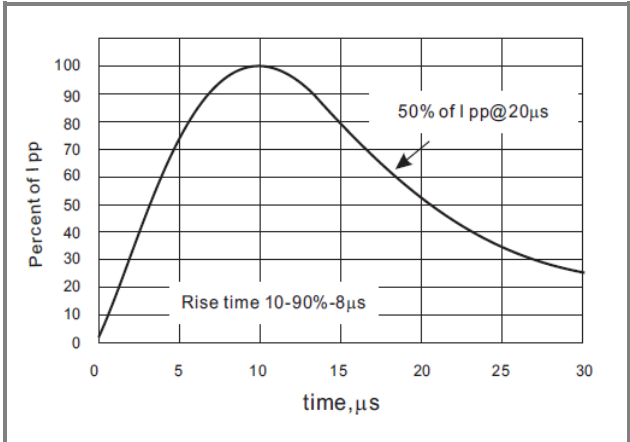


Fig.4 8/20us Pulse Waveform

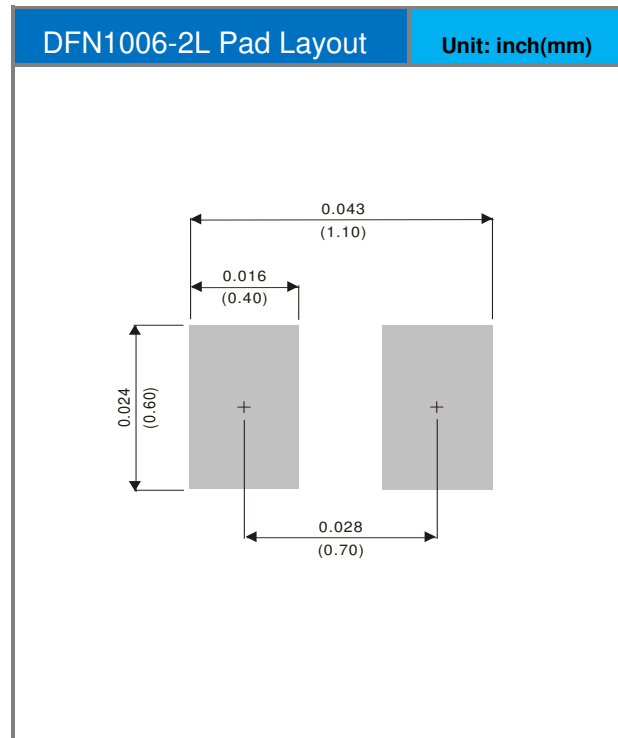
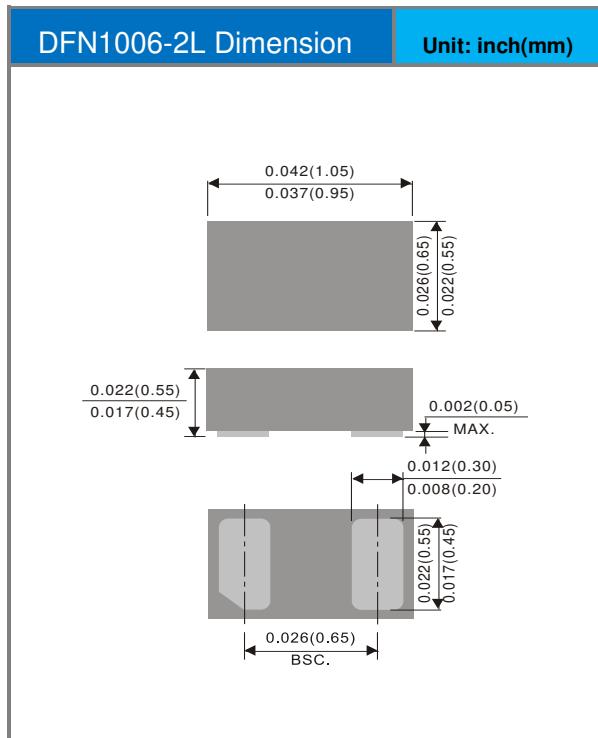


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Product and Packing Information

Part No.	Package Type	Packing Type	Marking	Version
PJE24VM5FN2	DFN1006-2L	10K pcs / 7" Reel	AM	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





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