



PJE28VM2FN2

ESD Protection

V_{RWM}

28 V

Features

- ESD protection of one line
- IEC61000-4-2(ESD) : $\pm 20\text{kV}$ Air, $\pm 15\text{kV}$ Contact Compliance
- IEC61000-4-4(EFT) : 40A(5/50nS)
- IEC61000-4-5(Lightning) : 3A(8/20uS)
- Low leakage current, maximum of 0.5uA 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
Peak Pulse Power Dissipation(tp=8/20uS)	P _{PP}	165	W
ESD IEC61000-4-2(Air)	V _{ESD}	± 20	kV
ESD IEC61000-4-2(Contact)		± 15	
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 ^(Note 1)	V _{RWM}	-	-	-	28	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} = 1 mA	29	-	35	V
Reverse leakage current	I _R	V _R = 28 V	-	-	0.5	uA
Clamping Voltage	V _{CL}	I _{PP} = 1 A, t _P = 8/20 us	-	38	45	V
		I _{PP} = 3 A, t _P = 8/20 us	-	48	55	
Dynamic Resistance ^(Note 2)	R _D	t _P = 8/20 us	-	5	-	Ω
Off State Junction Capacitance	C _J	0 Vdc Bias f = 1MHz	-	-	25	pF

NOTES :

- 1.A transient suppressor is selected according to the working peak reverse voltage(V_{RWM}), which should be equal to or greater than the DC or continuous peak operation voltage level.
- 2.Dynamic resistance calculated form I_{PP} = 1 A to I_{PP} = 3 A.



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TYPICAL CHARACTERISTIC CURVES

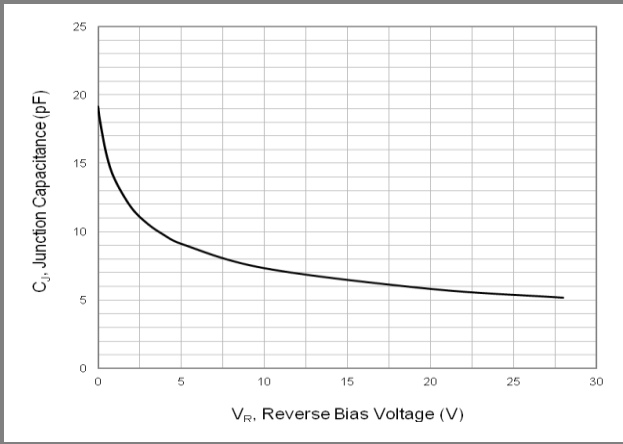


Fig.1 Typical Junction Capacitance

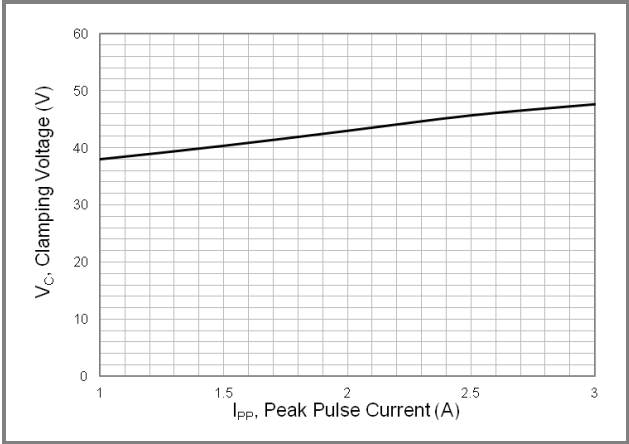


Fig.2 Typical Peak Clamping Voltage(8/20us)

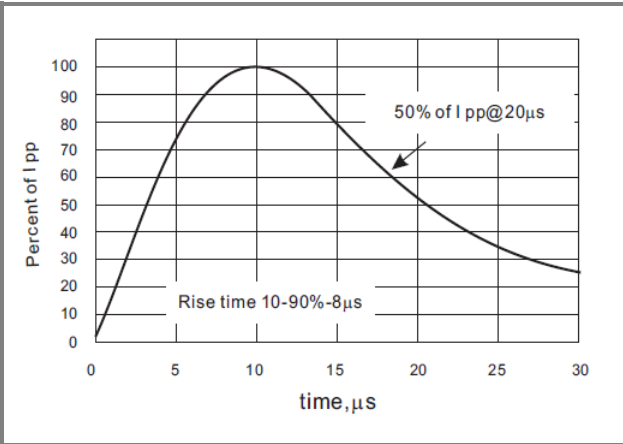


Fig.3 8/20us Pulse Waveform

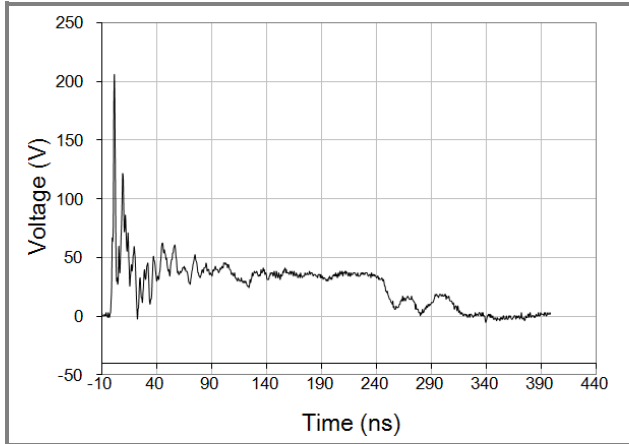


Fig.4 ESD Clamping (+8kV Contact per IEC61000-4-2)

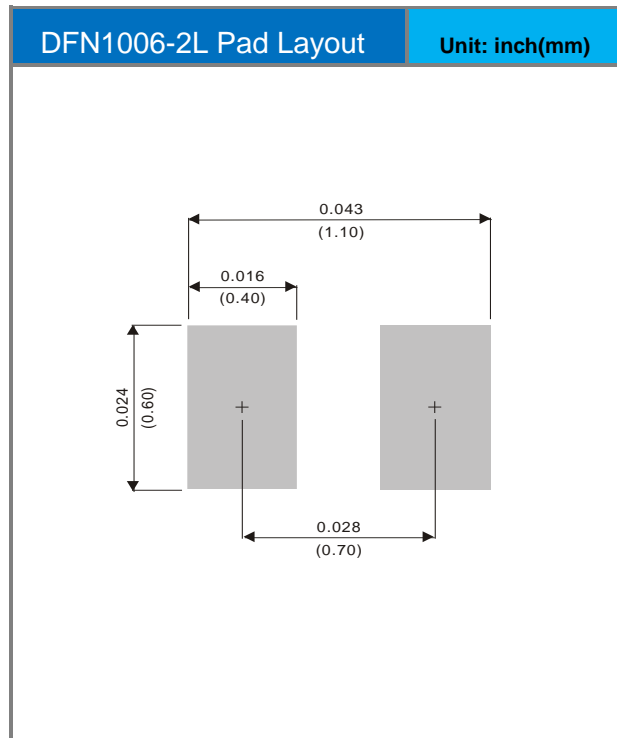
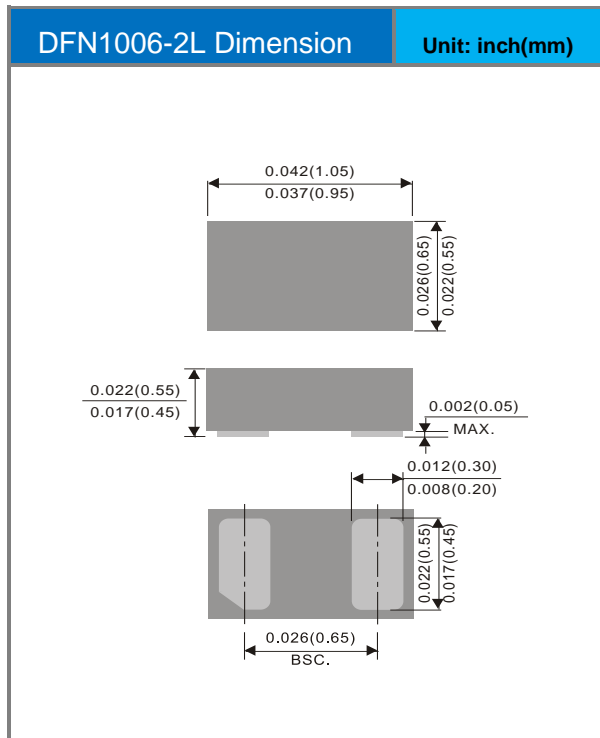


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Product and Packing Information

Part No.	Package Type	Packing Type	Marking	Version
PJE28VM2FN2	DFN1006-2L	10K pcs / 7" Reel	9V	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





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