



# PJEC5V0M1FN2

## Low Capacitance TVS/ESD Protection

**V<sub>RWM</sub>**

**5 V**

### Features

- Bidirectional ESD protection of one line
- IEC61000-4-2(ESD): ±15kV Air, ±8kV Contact Compliance with the capability up to ±30kV
- IEC61000-4-4(EFT): 40A(5/50nS)
- IEC61000-4-5(Lightning): 3.5A(8/20μS)
- Low leakage current, maximum of 0.1μA 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: 6B

### 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

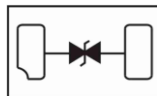
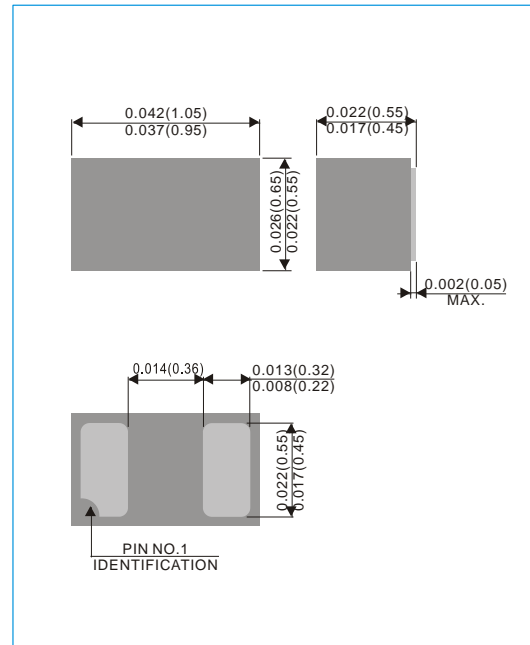


Fig.166(Top View)

### DFN 2L

Unit : inch(mm)



### Maximum Ratings (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
ESD IEC61000-4-2(Air)	V <sub>ESD</sub>	±30	kV
ESD IEC61000-4-2(Contact)		±30	
Operating Junction Temperature	T <sub>J</sub>	-55 to +125	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°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	$V_{RWM}$	-	-	-	5	V
Snap-Break Voltage	$V_{SB}$	$I_{SB}=50\text{mA}$	5	-	8	V
Reverse Leakage Current	$I_R$	$V_R=5.0\text{V}$	-	-	0.1	$\mu\text{A}$
Clamping Voltage	$V_{CL}$	$I_{PP}=1\text{A}$ , $t_P=8/20\mu\text{s}$	-	-	9	V
		$I_{PP}=3.5\text{A}$ , $t_P=8/20\mu\text{s}$	-	-	12.5	
Clamping Voltage TLP <sup>(Note 1)</sup>	$V_{CL}$	$I_{PP}=4\text{A}$ , $t_P=100\text{ns}$	-	8.6	-	V
		$I_{PP}=8\text{A}$ , $t_P=100\text{ns}$	-	9.7	-	
Dynamic Resistance	$R_{DYN}$	$t_P=100\text{ns}$	-	0.27	-	$\Omega$
Off State Junction Capacitance	$C_J$	0Vdc Bias $f=1\text{MHz}$	-	-	10	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

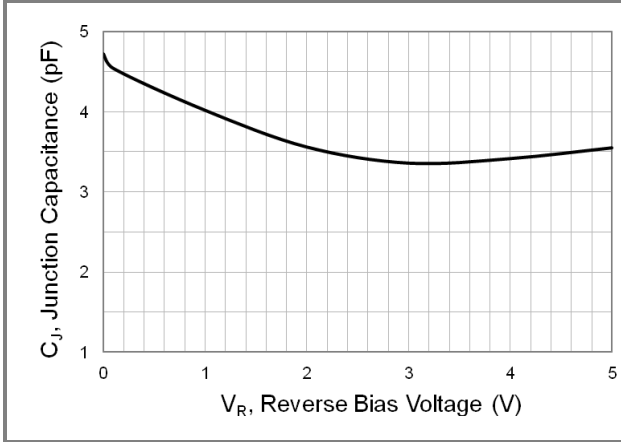


Fig.1 Typical Junction Capacitance

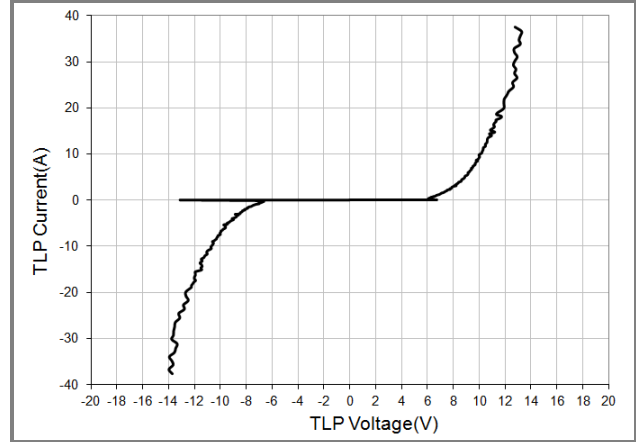


Fig.2 Transmission Line Pulsing (TLP) Measurement

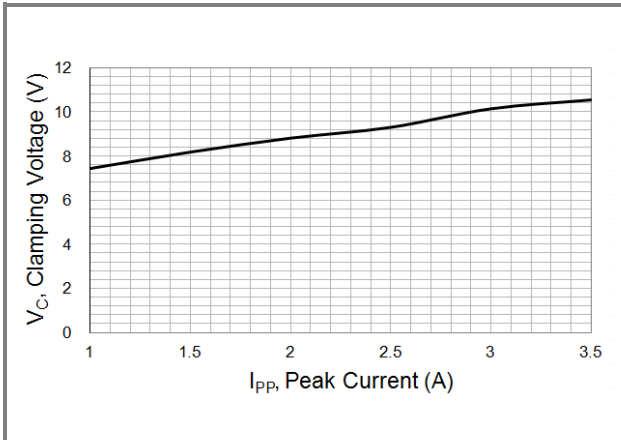


Fig.3 Typical Peak Clamping Voltage(8/20 $\mu$ s)

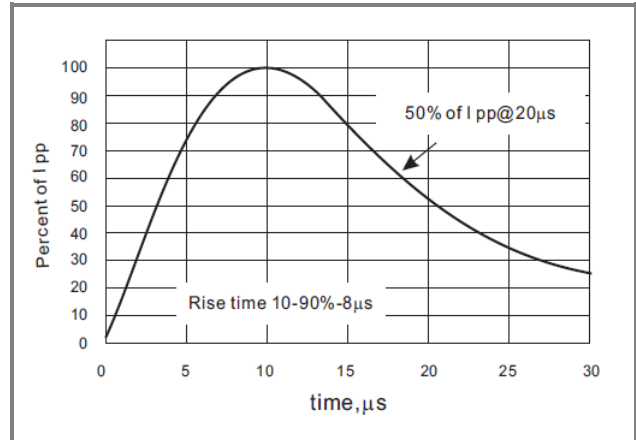


Fig.4 8/20 $\mu$ s Pulse Waveform

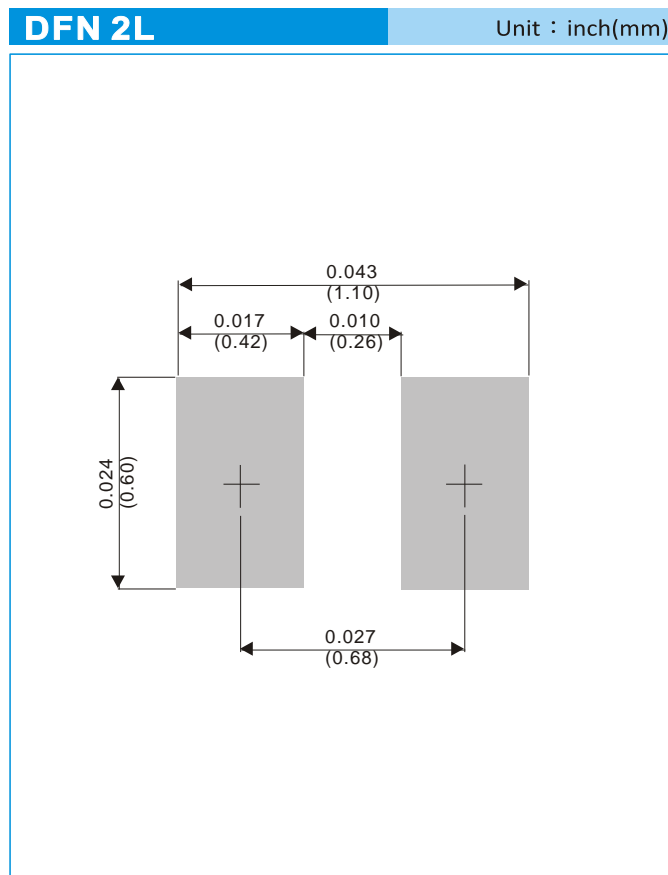


# PJEC5V0M1FN2

## PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
PJEC5V0M1FN2_R1_00001	DFN 2L	8K pcs / 7" reel	6B	Halogen free

## MOUNTING PAD LAYOUT





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