# PJE5V0M1FN2 Low Capacitance TVS/ESD Protection 5 V VRWM

### Features

- Bidirectional ESD protection of one line
- IEC61000-4-2(ESD): ±15kV Air, ±8kV Contact Compliance •
- IEC61000-4-4(EFT): 20A(5/50nS)
- IEC61000-4-5(Lightning): 2A(8/20μS)
- Low leakage current, maximum of 0.5µA at rated voltage
- Lead free in compliance with EU RoHS 2011/65/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 •
- Approx. Weight: 0.00004 ounces, 0.0011 grams •
- Marking: 4B

#### Applications

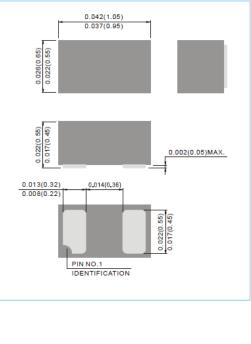
- Mobile Phones and accessories
- Desktops, Servers and Notebook
- Hand held portable •
- **Digital Cameras** •
- **Computer Interfaces Protection** .
- Serial and Parallel Ports Protection
- Control Signal Lines Protection

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

PARAMETER	SYMBOL	LIMIT	UNITS
ESD IEC61000-4-2(Air)	N/	±15	
ESD IEC61000-4-2(Contact)	$V_{ESD}$	±8	kV
Operating Junction Temperature	$T_{J}$	-55 to +125	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

0.013(0.32) 0.008(0.22 PIN NO.1

DFN 2L





Unit : inch(mm)



## Cathode Anode

#### Fig.30(Top View)





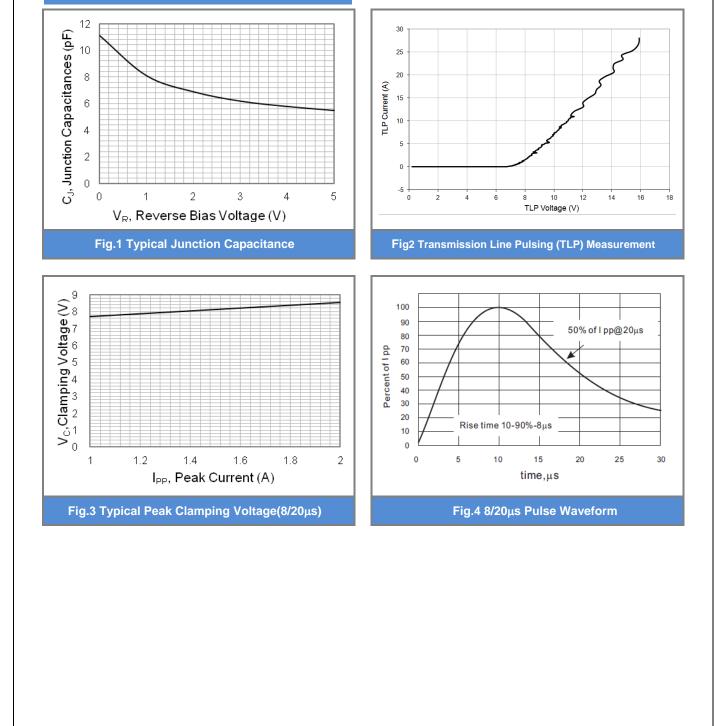


# PJE5V0M1FN2

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	V <sub>RWM</sub>	-	-	-	5	V
Reverse Breakdown Voltage	$V_{BR}$	I <sub>BR</sub> =1mA	6.2	-	7.2	V
Reverse leakage current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	0.5	μA
Clamping Voltage	V <sub>CL</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs			9	V V
		I <sub>PP</sub> =2A, t <sub>P</sub> =8/20μs	-	-	10	
Clamping Voltage TLP <sup>(Note 1)</sup>	V <sub>CL</sub>	I <sub>PP</sub> =4A, t <sub>P</sub> =100ns	-	9	-	
		I <sub>PP</sub> =8A, t <sub>P</sub> =100ns	-	10.3	-	
Dynamic Resistance <sup>(Note 1)</sup>	R <sub>DYN</sub>	t <sub>P</sub> =100ns	-	0.33	-	Ω
Off State Junction Capacitance	CJ	0Vdc Bias f=1MHz	-	-	15	pF

NOTES :

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





TYPICAL CHARACTERISTIC CURVES

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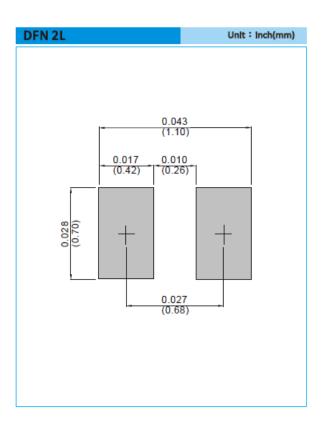


# PJE5V0M1FN2

#### PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing type	Marking	Version
PJE5V0M1FN2_R1_00001	DFN 2L	8K pcs / 7" reel	4B	Halogen free

### MOUNTING PAD LAYOUT





# PJE5V0M1FN2

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