



# PJSD05MLFN2

## ESD PROTECTION DIODES

The PJSD05MLFN2 is designed to protect voltage sensitive components from ESD. Excellent clamping capability, low leakage, and fast response time provide best in class protection on designs that are exposed to ESD.

**VOLTAGE** 5 Volts      **POWER** 90 Watts

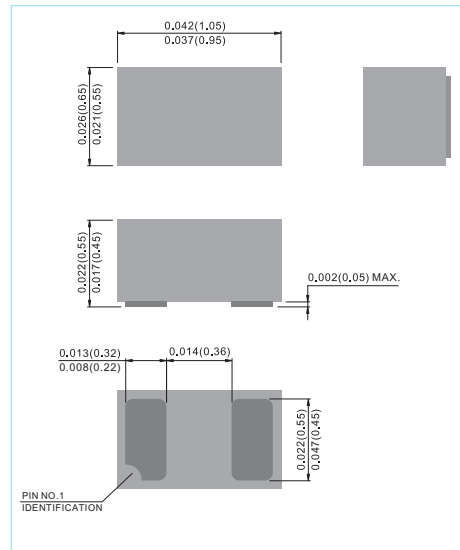
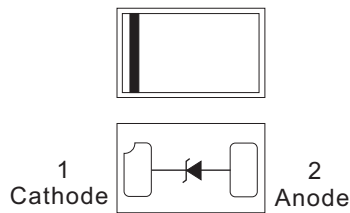
**DFN 2L**      Unit : inch(mm)

### FEATURES

- Low leakage
- In compliance with EU RoHS 2002/95/EC directives
- IEC61000-4-2 Level 4 ESD Protection
- IEC61000-4-4 Level 4 EFT Protection 80A ( $t_p=5/50ns$ )

### MECHANICAL DATA

- Case: DFN 2L, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band cathode



### MAXIMUM RATINGS

Rating	Symbol	Value	Units
Peak Power Dissipation 8/20 Surge Pulse	$P_{PM}$	90	W
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150	°C

### ELECTRICAL CHARACTERISTICS

( $T_A=25^\circ\text{C}$  UNLESS OTHERWISE NOTED,  $V_F=0.9\text{V Max.}@I_F=10\text{mA}$ )

Device	$V_{RWM}(V)$	$I_R(\mu A)@V_{RWM}$	$V_{BR}(V) I_T$ (Note 1)	$I_T$	$V_C(V)@MAX I_{PP+}$	$I_{PP+}(A)^+$	$P_{PK}(W)^+$	$C_J(pF)$	Marking Code
	Max	Max	Min	mA	Max	Max	Max	Typ	
PJSD05MLFN2	5.0	1.0	6.2	1.0	10	9	90	65	BR

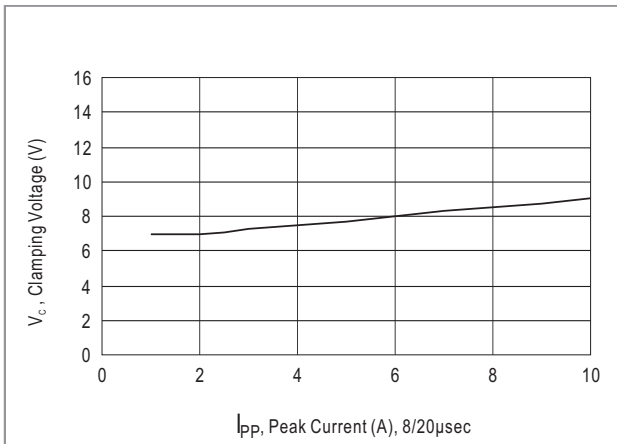
NOTES:

\*Other voltages available upon request

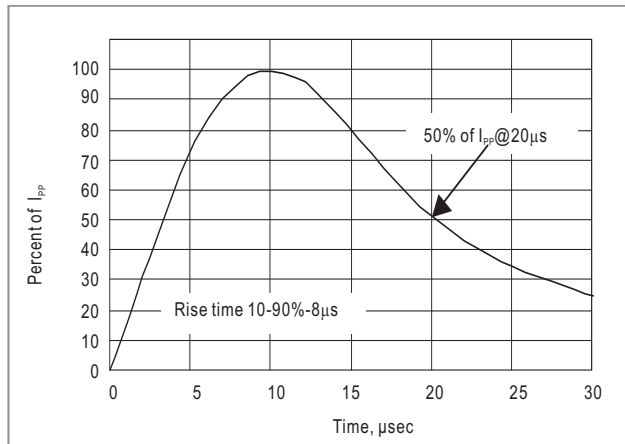
1.  $V_{BR}$  is measured with a pulse test current  $I_T$  at an ambient temperature of  $25^\circ\text{C}$



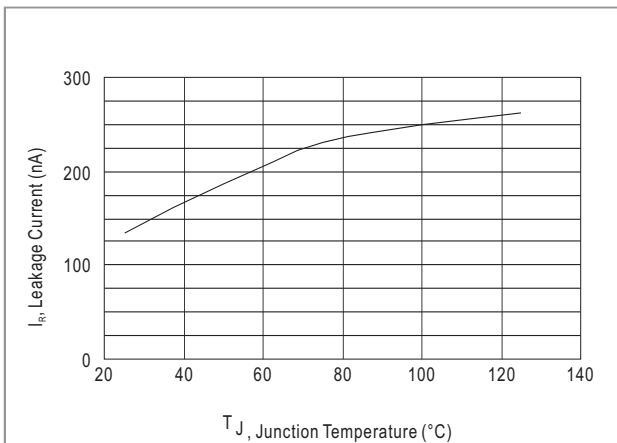
# PJSD05MLFN2



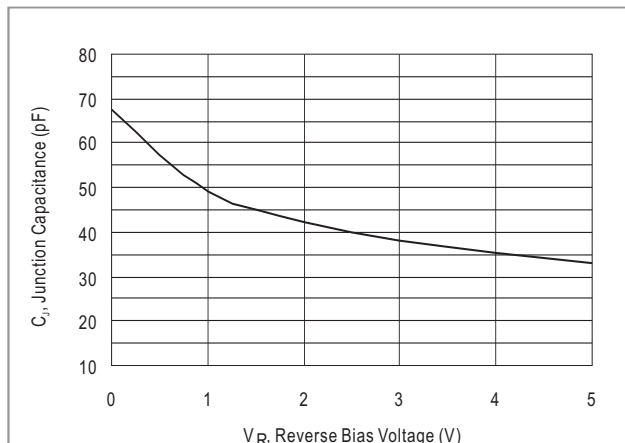
**FIG. 1- Clamping Voltage**



**FIG. 2- Surge Pulse Waveform Definition**



**FIG. 3- Typical Reverse Characteristics**

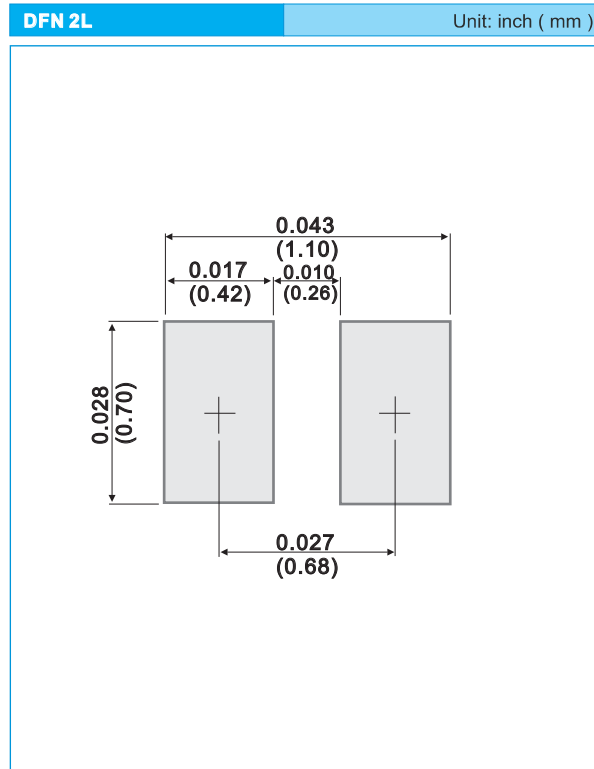


**FIG. 4- Typical Junction Capacitance**



# PJSD05MLFN2

## MOUNTING PAD LAYOUT



## LEGAL STATEMENT

### Copyright PanJit International, Inc 2010

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.