



# PJSD05FN2

## SINGLE LINE TVS DIODE FOR ESD PROTECTION PORTABLE ELECTRONICS

**VOLTAGE** 5 Volts **POWER** 200 Watts

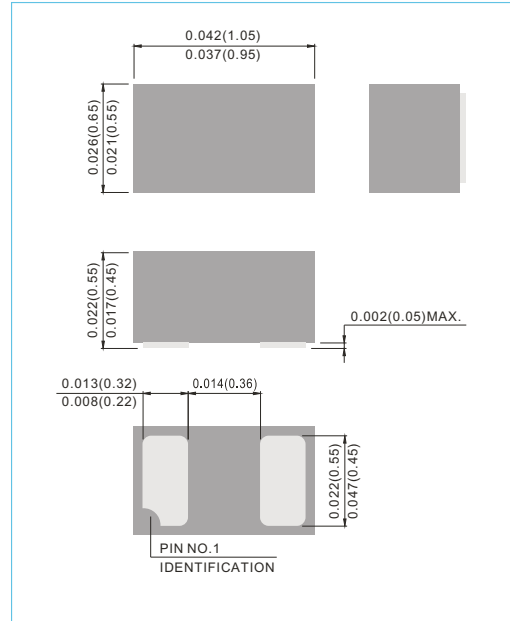
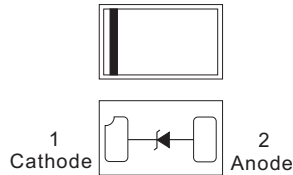
**DFN 2L** Unit : inch(mm)

### FEATURES

- 200 Watts peak pulses power(  $t_p=8/20\mu s$ )
- Small package for use in portable electronics
- IEC61000-4-2 8KV contact 15KV Air compliant
- Low clamping voltage and leakage current
- In compliance with EU RoHS 2002/95/EC directives

### APPLICATIONS

- Case: DFN 2L plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Polarity : Color band cathode
- Marking : BA
- Video I/O ports protection
- Set Top Boxes
- Portable Instrumentation



### MAXIMUM RATINGS

ABSOLUTE MAXIMUM RATING

Rating	Symbol	Value	Units
Peak Pulse Power ( $t_p=8/20 \mu s$ )	$P_{PP}$	200	W
Maximum Peak Pulse Current	$I_{PPM}$	18	A
ESD Voltage per HBM MIL-STD-883	$V_{ESD}$	25	KV
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-50 to +150	$^{\circ}C$

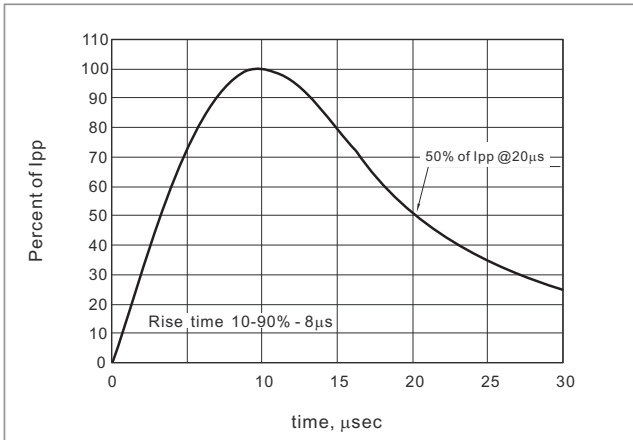
### ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Conditions	Min.	Typical	Max.	Units
Reverse Stand-Off Voltage	$V_{RWM}$	-	-	-	5	V
Reverse Breakdown Voltage	$V_{BR}$	$I_{BR}=1mA$	6.0	-	7.2	V
Reverse Leakage Current	$I_R$	$V_R=5V$	-	-	1	$\mu A$
Clamping Voltage(8/20 $\mu s$ )	$V_C$	$I_{PP}=5A$	-	-	11	V
Clamping Voltage(8/20 $\mu s$ )	$V_C$	$I_{PP}=15A$	-	-	14	V
Off State Junction Capacitance	$C_J$	0Vdc Bias=f=1MHz	-	-	160	pF
Off State Junction Capacitance	$C_J$	5Vdc Bias=f=1MHz	-	-	80	pF

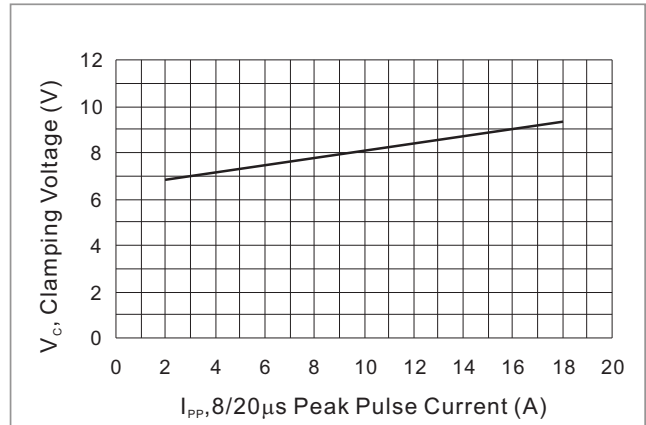
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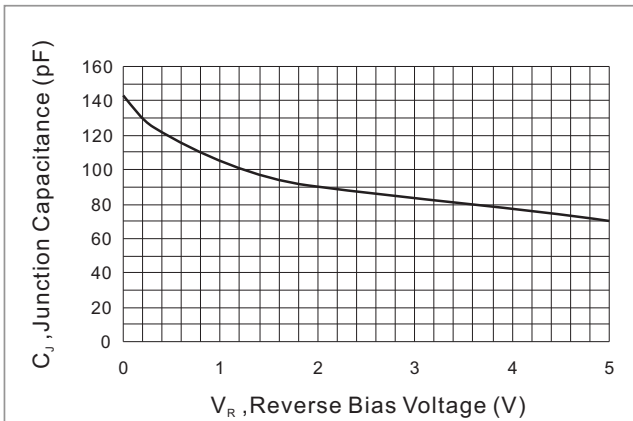
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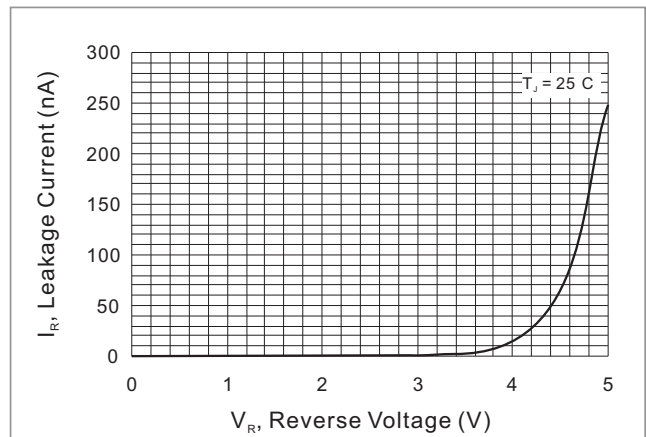
**Fig. 1 8/20µs Peak Pulse Current Waveform**



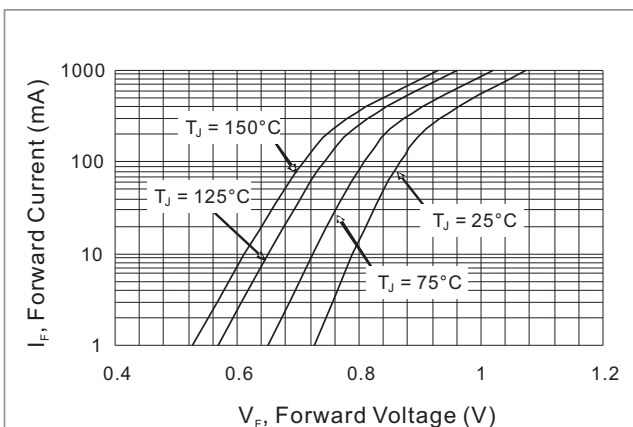
**Fig. 2 Typical Peak Clamping Voltage**



**Fig. 3 Typical Junction Capacitance**



**Fig. 4 Typical Reverse Characteristics**

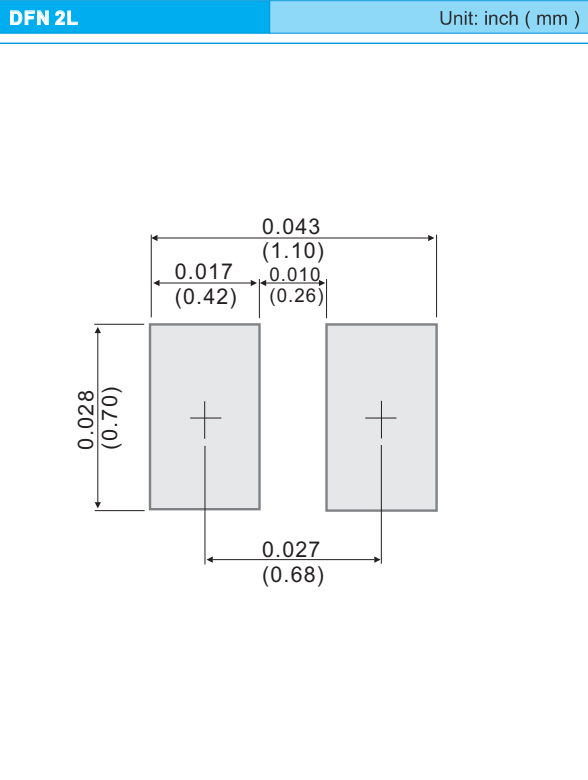


**Fig. 5 Typical Forward Characteristics**



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## MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information  
T/R - 8K per 7" plastic Reel

### LEGAL STATEMENT

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