

PJSD05FN2

SINGLE LINE TVS DIODE FOR ESD PROTECTION PORTABLE ELECTRONICS

VOLTAGE 5 Volt **POWER** 200 Watt

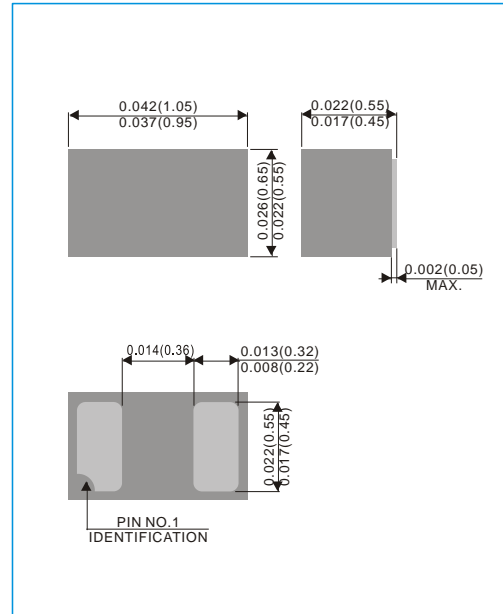
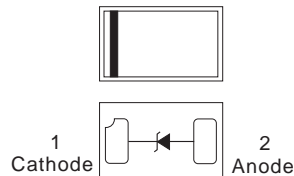
DFN 2L Unit : inch(mm)

FEATURES

- 200 Watts peak pules 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
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

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	°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	μA
Clamping Voltage(8/20 μs)	V_C	$I_{PP}=5A$	-	-	11	V
Clamping Voltage(8/20 μs)	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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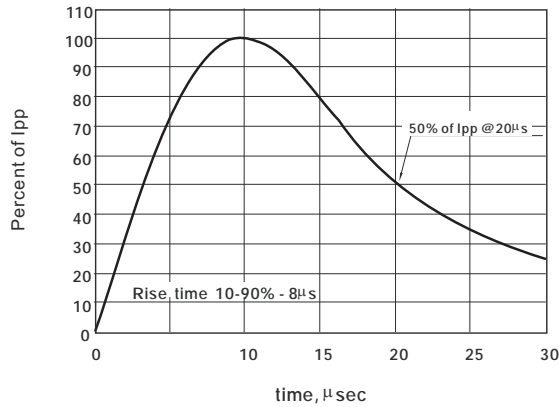


Fig.1 8/20 μs Peak Pulse Current Waveform

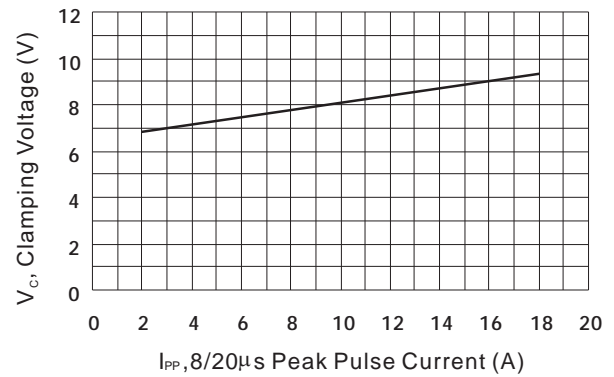


Fig.2 Typical Peak Clamping Voltage

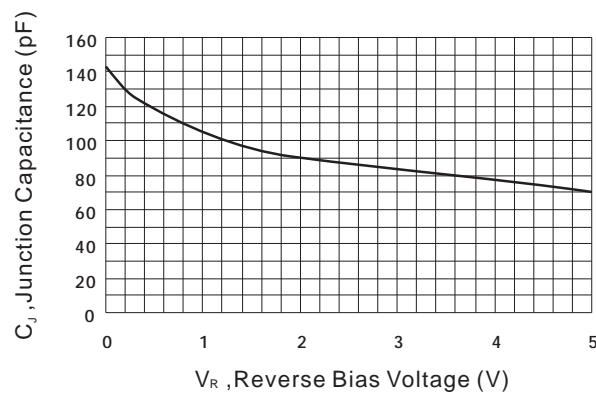


Fig.3 Typical Junction Capacitance

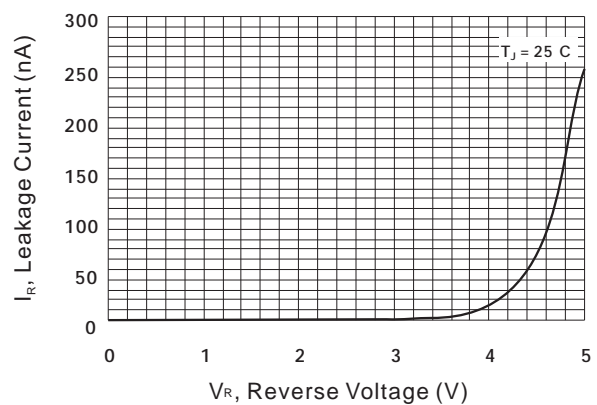


Fig.4 Typical Reverse Characteristics

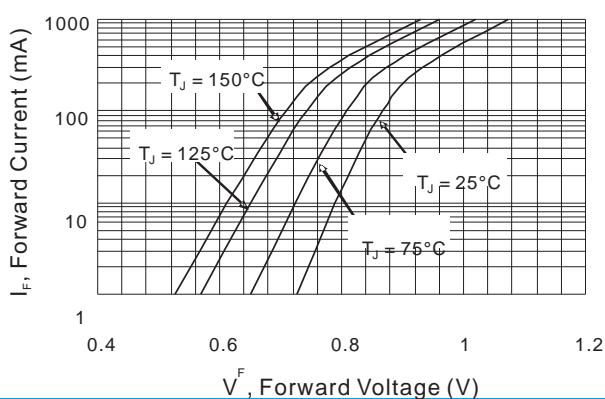


Fig.5 Typical Forward Characteristics

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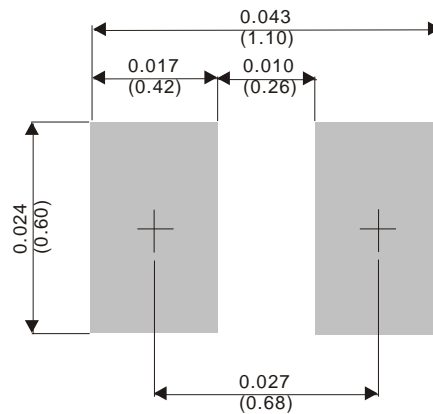
Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PJSD05FN2_R1_00001	DFN 2L	8K pcs / 7" reel	BA	Halogen free

MOUNTING PAD LAYOUT

DFN 2L

Unit : inch(mm)





PJSD05FN2

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