

PJSD05CFN2

BI-DIRECTIONAL TVS

This bi-directional TVS has been designed to protect sensitive equipment against ESD and to prevent Latch-Up events in CMOS circuitry operating at 5Vdc and below. This offers an integrated solution to protect a single data line where the board space is a premium.

SPECIFICATION FEATURES

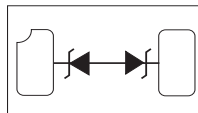
- 200W Power Dissipation (8/20 μ s Waveform)
- Low Leakage Current, Maximum of 1 μ A@5Vdc
- Very low Clamping voltage
- IEC 61000-4-2 ESD 15kV air, 8kV Contact Compliance
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Terminals : Solderable per MIL-STD-750, Method 2026
- Case : DFN 2L, Plastic
- Weight: 0.00004 ounces, 0.0011 grams
- Marking : BT

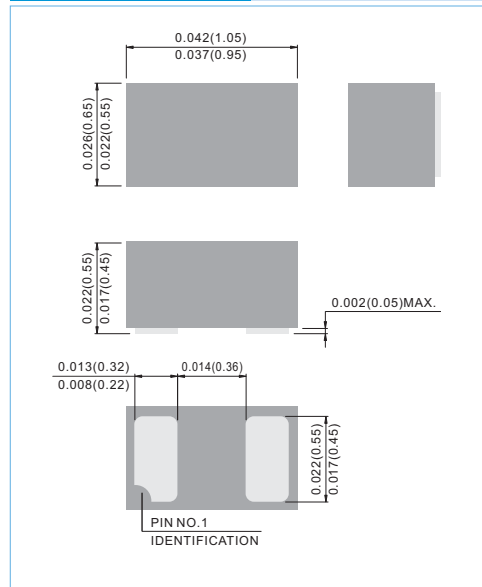
APPLICATIONS

- Video I/O ports protection
- Set Top Boxes
- Portable Instrumentation



DFN 2L

Unit : inch(mm)



MAXIMUM RATINGS

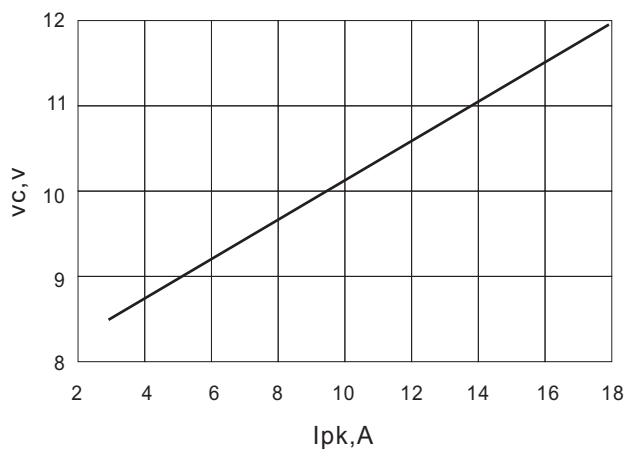
Rating	Symbol	Value	Units
Peak Pulse Power (8/20 μ s Waveform)	P _{PP}	200	W
Maximum Peak Pulse Current (8/20 μ s Waveform)	I _{PPM}	18	A
ESD Voltage (HBM)	V _{ESD}	>25	kV
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C)

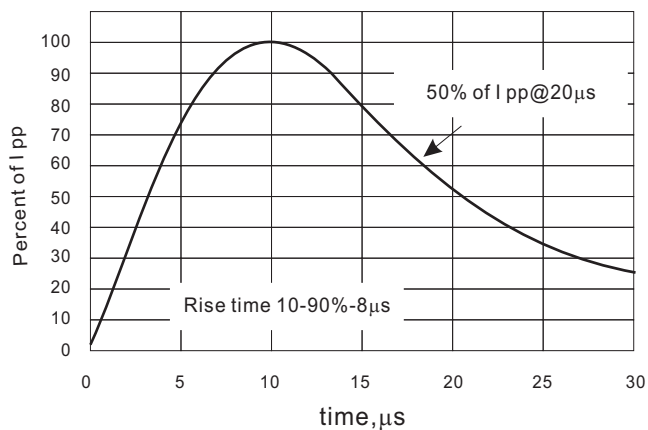
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Stand-Off Voltage	V _{WRM}		-	-	5.0	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} =1mA	6	-	-	V
Reverse Leakage Current	I _R	V _R =5V	-	-	1.0	μ A
Clamping Voltage (8/20 μ s)	V _C	I _{PP} =5A	-	-	11	V
Clamping Voltage (8/20 μ s)	V _C	I _{PP} =15A	-	-	14	V
Off State Junction Capacitance	C _J	0 Vdc Bias f=1MHz	-	-	70	pF
Off State Junction Capacitance	C _J	5 Vdc Bias f=1MHz	-	-	60	pF

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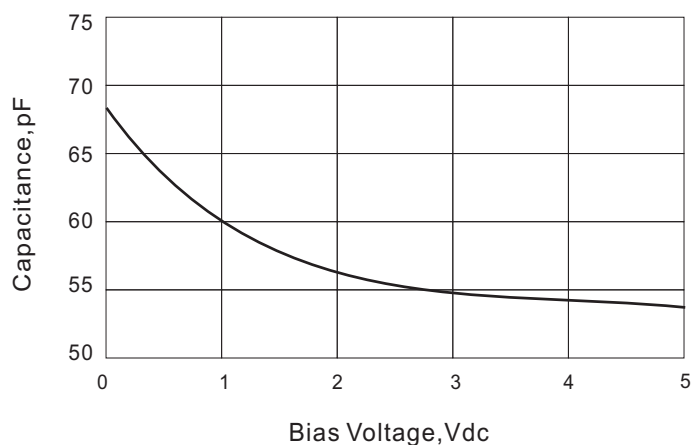
TYPICAL CHARACTERISTICS



Clamping Voltage vs I_{pp} 8/20 μ s Surge



Pulse Waveform



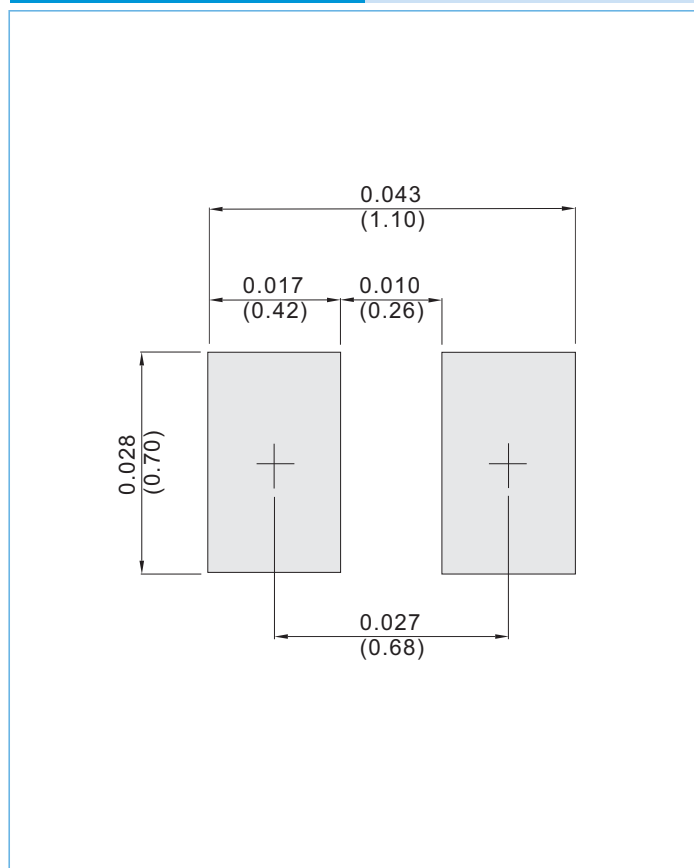
Capacitance vs. Biasing Voltage@1MHz

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MOUNTING PAD LAYOUT

DFN 2L

Unit : inch(mm)



ORDER INFORMATION

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

LEGAL STATEMENT

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For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
T/B	A	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	B	13"	2			
T/P	T	26mm	X			
TRR	S	52mm	Y			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			

Part No_packing code_Version

PJSD05CFN2_R1_00001