



PAGE . 1

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.

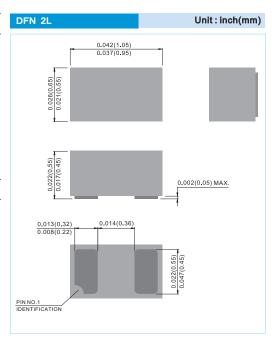
SPECIFICATION FEATURES

- 200W Power Dissipation (8/20µs Waveform)
- Low Leakage Current, Maximum of 1μA@5Vdc
- · Very low Clamping voltage
- IEC 61000-4-2 ESD 15kV air, 8kV Contact Compliance
- In compliance with EU RoHS 2002/95/EC directives
- Terminals : Solderable per MIL-STD-750, Method 2026
- · Case: DFN 2L, Plastic
- · Marking: BT

APPLICATIONS

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





MAXIMUM RATINGS

REV.0.5-AUG.11.2009

Rating	Symbol	Value	Units
Peak Pulse Power (8/20 μs Waveform)	Ррр	200	W
Maximum Peak Pulse Current (8/20 μs Waveform)	І РРМ	18	А
ESD Voltage (HBM)	Vesd	>25	kV
Operating Junction and Storage Temperature Range	TJ,TsTG	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-Off Voltage	Vwrm		-	-	5.0	V
Reverse Breakdown Voltage	VBR	I _{BR} =1mA	6	-	-	V
Reverse Leakage Current	IR	V _R =5V	-	-	1.0	μА
Clamping Voltage (8/20μs)	Vc	IPP=5A	-	-	11	V
Clamping Voltage (8/20μs)	Vc	IPP=15A	-	-	14	V
Off State Junction Capacitance	Сл	0 Vdc Bias f=1MHz	-	-	70	pF
Off State Junction Capacitance	Сл	5 Vdc Bias f=1MHz	-	-	60	pF

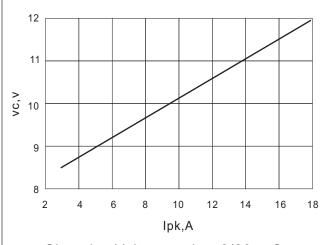
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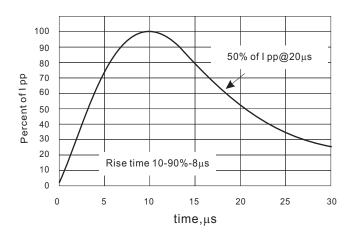




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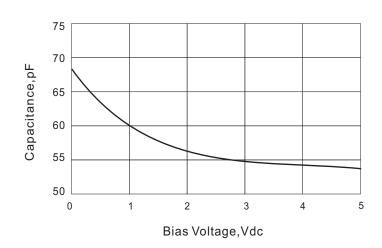
TYPICAL CHARACTERISTICS





Clamping Voltage vs I pp 8/20 µs Surge

Pulse Waveform



Capacitance vs. Biasing Voltage@1MHz

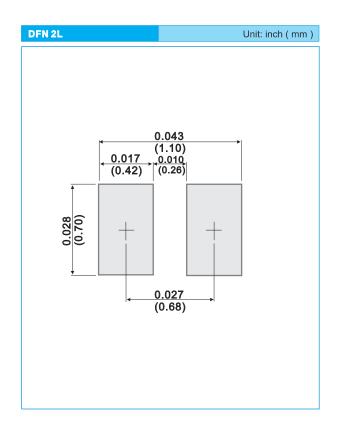
REV.0.5-AUG.11.2009 PAGE . 2





PJSD05CFN2

MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 8K per 7" plastic Reel

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REV.0.5-AUG.11.2009 PAGE . 3