



PJSD05LCFN2

BI-DIRECTIONAL ESD PROTECTION DIODE

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.

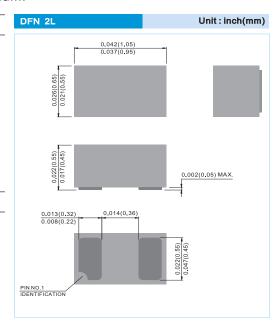
SPECIFICATION FEATURES

- 40W Power Dippsipation (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 directivess
- Terminals : Solderable per MIL-STD-750, Method 2026
- · Case: DFN 2L, Plastic
- · Marking : BY

APPLICATIONS

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





MAXIMUM RATINGS

Rating	Symbol	Value	Units
Peak Pulse Power (8/20 μs Waveform)	РРР	40	W
Peak Pulse Current (8/20 μs Waveform)	I ррм	4	А
ESD Voltage (HBM)	Vesd	>25	kV
Operating Junction and Storage Temperature Range	ТЈ,Тѕтс	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

www.D	Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
	Reverse Stand-Off Voltage	Vwrm		-	-	5.0	V
	Reverse Breakdown Voltage	VBR	IBR=1mA	5.78	-	7.82	V
	Reverse Leakage Current	IR	V _R =5V	-	-	1.0	μА
	Clamping Voltage (8/20μs)	Vc	Ipp=4A	-	-	10	V
	Off State Junction Capacitance	C³	0 Vdc Bias f=1MHz	-	-	15	pF

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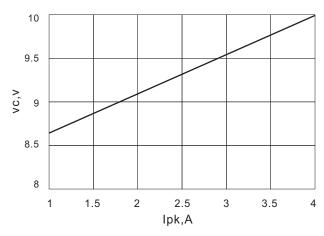
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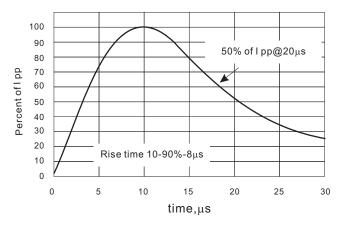




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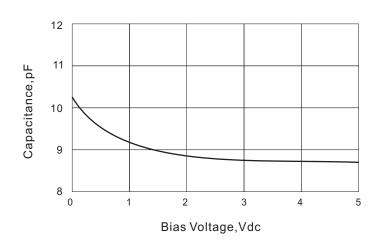
TYPICAL CHARACTERISTICS





Clamping Voltage vs I pp 8/20 µs Surge

Pulse Waveform



Capacitance vs. Biasing Voltage@1MHz

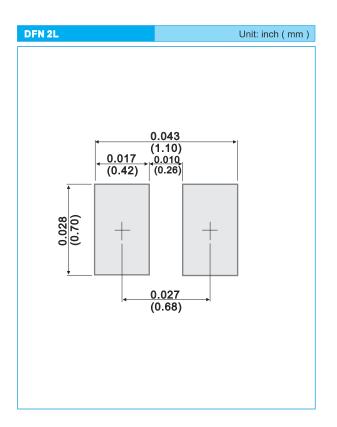
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MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 8K per 7" plastic Reel

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