



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 1 μA@5Vdc
- Very low Clamping voltage
- IEC 61000-4-2 ESD 15kV air, 8kV Contact Compliance
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

A97<5B=75@85H5

• Terminals : Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.00004 ounces, 0.001grams

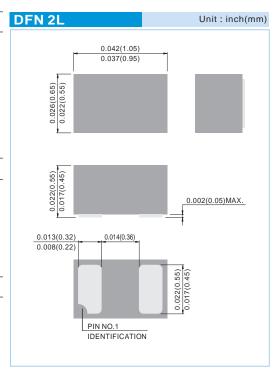
• Case : DFN 2L, Plastic

• 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)	P _{PP}	40	W
Peak Pulse Current (8/20 μs Waveform)	I PPM	4	А
ESD Voltage (HBM)	VESD	>25	kV
Operating Junction and Storage Temperature Range	ТЈ,Тѕтс	-55 to +150	°C

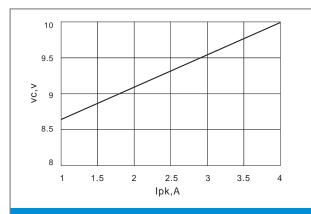
ELECTRICAL CHARACTERISTICS (TA=25°C)

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	Сл	0 Vdc Bias f=1MHz	-	-	15	pF

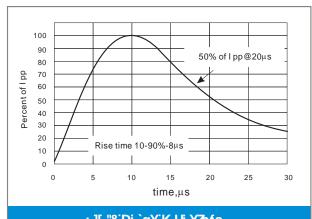




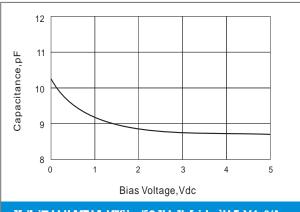
TYPICAL CHARACTERISTIC CURVES



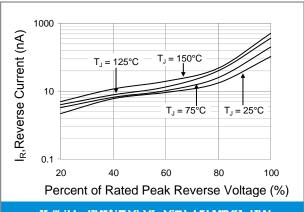
:]["%7`Ua d]b['Jc`HJ[Y'j g'=dd', #&\$i g'Gi f[Y



:]["&'Di `gY'K Uj YZcfa



:][" '7 UdUV]HJbWY'j g"6]Ug]b['Jc`HJ[Y4 %A<n

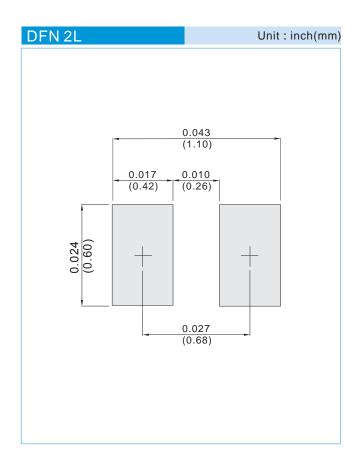


:]["('Hmd]WU'FYj YfgY'7 \ UfUWNYf]gh]Wg





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 8K per 7" plastic Reel





Part No_packing code_Version

PJSD05LCFN2_R1_00001

For example :



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	Х			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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