



PJSD05U06LCFN2 SERIES

LOW CAPACITANCE TVS/ESD PROTECTION

V_{RWM}

5 Volts

I_{PP}

2 Amperes

DFN 2L

Unit : inch(mm)

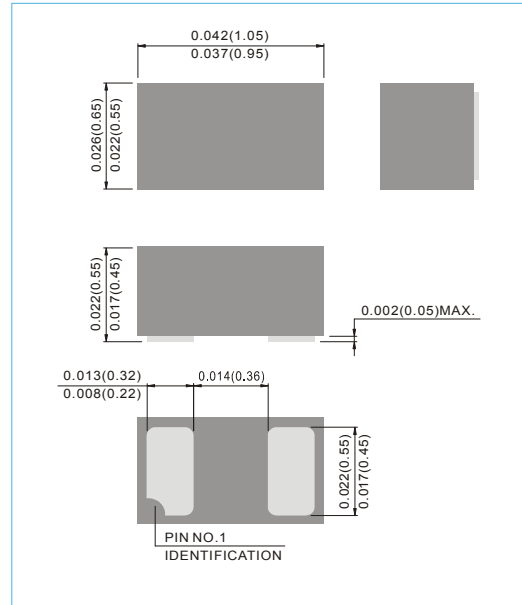
FEATURES

- IEC61000-4-2 ESD 15kV Air, 8kV Contact compliance
- Low leakage current, maximum of 1 μ A at rated voltage
- Protect one data, control or power line
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

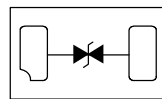
- Case: DFN 2L, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: approximately 0.00004 grams, 0.0011 ounces
- Marking code:

Partnumber	Marking
PJSD05U06LCFN2	BF
PJSD05U10LCFN2	B5
PJSD05U30LCFN2	B6
PJSD05U60LCFN2	B7



APPLICATIONS

- USB 2.0 Power and Data Line Protection
- Desktops, Servers and Notebooks
- Digital Visual Interfaces(DVI)
- Serial ATA
- PCI Express
- Cellular Phones
- MDDI Ports
- Display Ports



MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power (8/20 μ s Waveform)	P _{PP}	28	W
Peak Pulse Current (8/20 μ s Waveform)	I _{PP}	2	A
ESD IEC 61000-4-2 (Air) ESD IEC 61000-4-2 (Contact)	V _{ESD}	+15 + 8	kV
Operating Junction Temperature	T _J	-55 to +125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C



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MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

PJSD05U06LCFN2

PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	5	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} =1mA, between I/O to GND	6.8	8.4	11.2	V
Reverse Leakage Current	I _R	V _R =5V, between I/O to GND	-	-	1	μA
Clamping Voltage (8/20μs)	V _C	I _{pp} =2A, between I/O to GND	-	11	14	V
Off State Junction Capacitance	C _J	0Vdc, f=1.0MHz between I/O to GND	-	-	0.6	pF

PJSD05U10LCFN2

PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	5	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} =1mA, between I/O to GND	6.8	8.4	11.2	V
Reverse Leakage Current	I _R	V _R =5V, between I/O to GND	-	-	1	μA
Clamping Voltage (8/20μs)	V _C	I _{pp} =2A, between I/O to GND	-	11	14	V
Off State Junction Capacitance	C _J	0Vdc, f=1.0MHz between I/O to GND	-	-	1	pF

PJSD05U30LCFN2

PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	5	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} =1mA, between I/O to GND	6.8	8.4	11.2	V
Reverse Leakage Current	I _R	V _R =5V, between I/O to GND	-	-	1	μA
Clamping Voltage (8/20μs)	V _C	I _{pp} =2A, between I/O to GND	-	11	14	V
Off State Junction Capacitance	C _J	0Vdc, f=1.0MHz between I/O to GND	-	-	3	pF

PJSD05U60LCFN2

PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	5	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} =1mA, between I/O to GND	6.8	8.4	11.2	V
Reverse Leakage Current	I _R	V _R =5V, between I/O to GND	-	-	1	μA
Clamping Voltage (8/20μs)	V _C	I _{pp} =2A, between I/O to GND	-	11	14	V
Off State Junction Capacitance	C _J	0Vdc, f=1.0MHz between I/O to GND	-	-	6	pF



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RATING AND CHARACTERISTIC CURVES

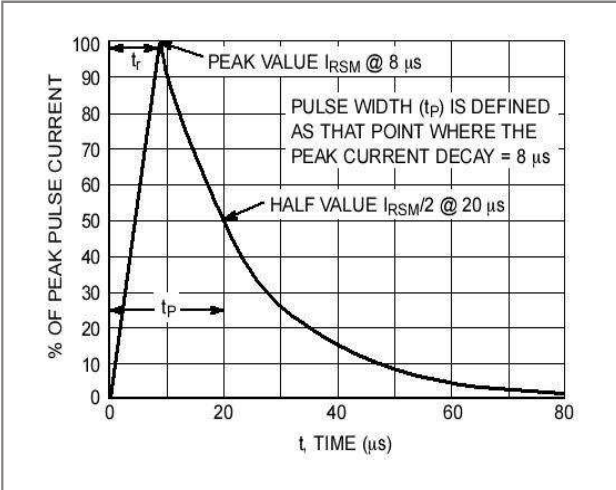


Fig.1 8X20us Pulse Waveform

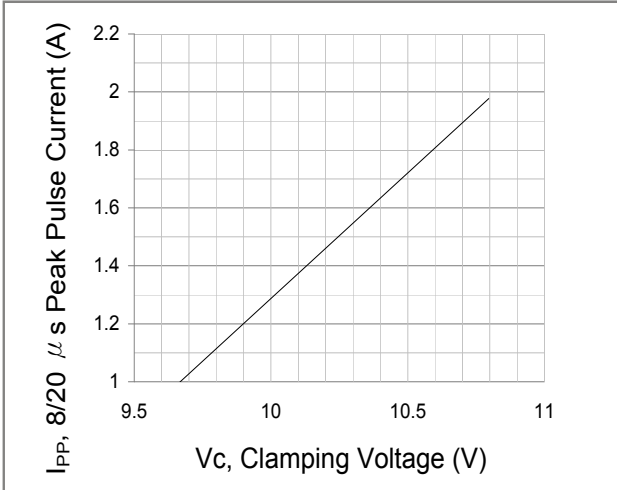


Fig.2 Typical Peak Clamping Voltage

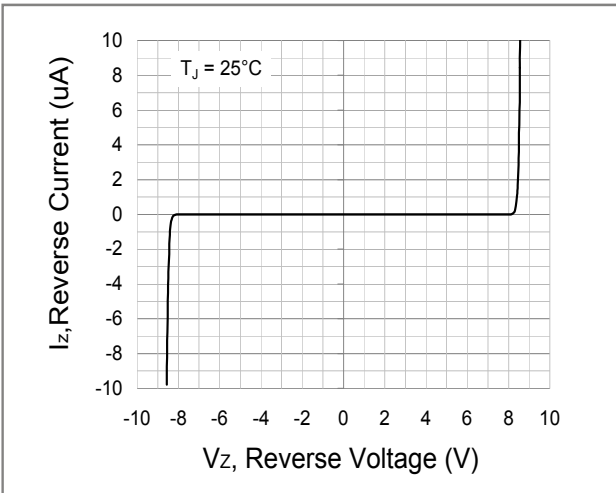
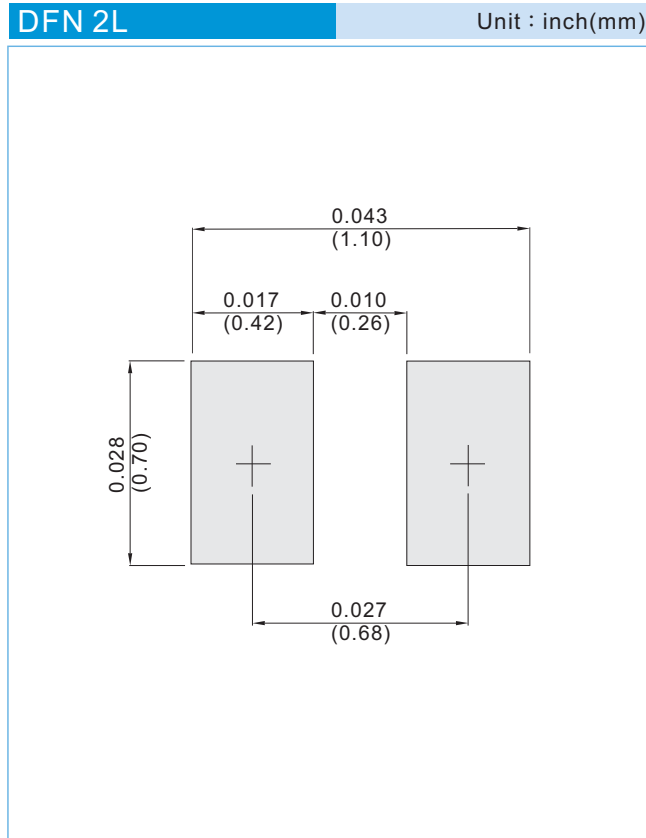


Fig.3 Typical Reverse Characteristics



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MOUNTING PAD LAYOUT



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 XXXXX		
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

PJSD05U10LCFN2_R1_00001