

PJSD05U06LCFN2 SERIES

LOW CAPACITANCE TVS/ESD PROTECTION

V_{RWM}

5 Volt

I_{PP}

2 Ampere

DFN 2L

Unit : inch(mm)

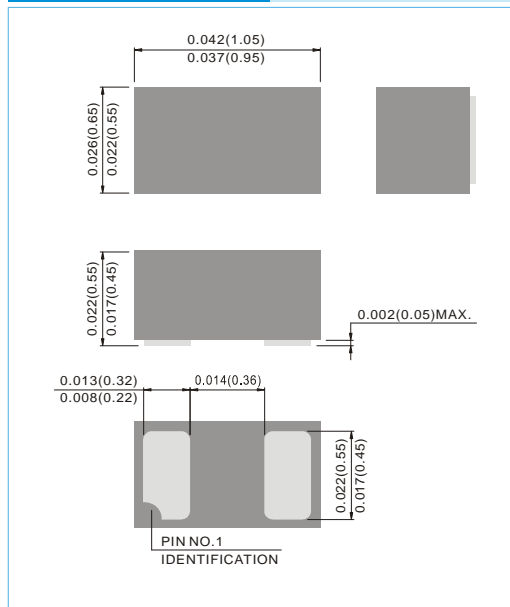
FEATURES

- IEC61000-4-2 ESD 15kV Air, 8kV Contact compliance
- Low leakage current, maximum of 1μA at rated voltage
- Protect one data, control or power line
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

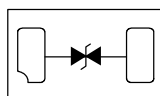
- Case: DFN 2L, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: approximately 0.00004 ounces, 0.0011 grams
- Marking code:

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 μs Waveform)	P _{PP}	28	W
Peak Pulse Current (8/20 μs 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



PJSD05U06LCFN2 SERIES

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	-	-	75	nA
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

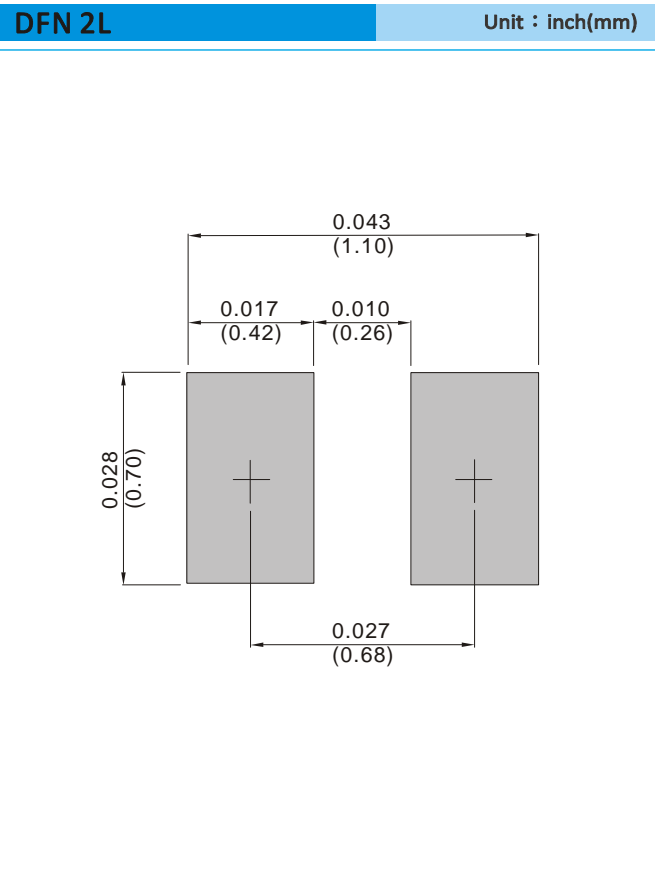
PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	5	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} =1mA, between I/O to GND	6.8	8.4	11.2	V
Reverse Leakage Current	I _R	V _R =5V, between I/O to GND	-	-	1	μA
Clamping Voltage (8/20μs)	V _C	I _{pp} =2A, between I/O to GND	-	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

PJSD05U06LCFN2 SERIES

MOUNTING PAD LAYOUT



ORDER INFORMATION

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

PJSD05U06LCFN2 SERIES

Part No_packing code_Version

PJSD05U06LCFN2_R1_00001

For example :

RB500V-40_R2_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
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			



PJSD05U06LCFN2 SERIES

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.