



VOLTAGE 5 to 24 Volt POWER 400 Watt

ULTRA LOW CAPACITANCE DUAL TRANSIET VOLTAGE SUPPRESSOR FOR HIGH SPEED DATA LINES

This transient overvoltage suppressor is intended to prodect sensitive equipment againset electrostatic discharge events as well to offer a minmum Insertion loss in data transmission lines in communications ports used in portable consumer, computing and networking applicatons. This dual transient voltage suppressor comes in a single SOT-23, offering borard space reduction, where the application requires it.

FEATURES

- Maximum capacitance @ 0 Vdc Bias of 1.2 pF between terminals 1-3 or terminals 2-3
- IEC61000-4-2 esd 15kV Air, 8kV contact compliance
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICALDATA

- · Case: SOT-23, plastic
- Terminals: solderable per MIL-STD-750, Method 2026
- · Approx. Weight: 0.0003 ounces, 0.008 grams

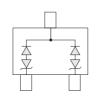
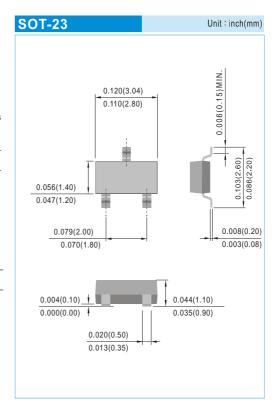


Fig.21



MAXIMUM RATINGS

Parameter		Value	Units
Operating Junction	TJ	-55 to +125	°C
Storage Temperature Range	Тѕтс	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

PJDLC05 Makring T2S						
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	5	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	6	-	-	V
Reverse Leakage Current	I _R	$V_{RWM} = 5V,$ $T = 25^{\circ}C$	-	-	20	μΑ
Clamping Voltage	V _c	I _{PP} = 1A t _p = 8/20 μs	-	-	9.8	V
Clamping Voltage	V _c	I _{PP} = 5A t _p = 8/20 μs	-	-	11	V
Junction Capacitance	C _J	Between pin1.2 to 3 V _R =0V,f=1MHz	-	-	1.0	pF





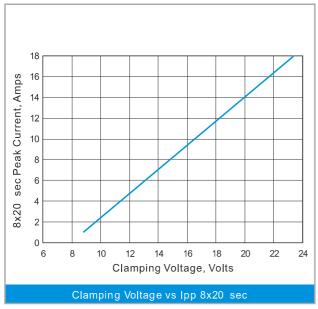
PJDLC12 Makring DJ2						
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	12	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	13.3	-	-	V
Reverse Leakage Current	I _R	V _{RWM} = 12V, T = 25°C	=	-	1	μА
Clamping Voltage	V _c	$I_{pP} = 1A$ $t_{p} = 8/20 \mu s$	-	-	19	V
Clamping Voltage	V _c	I _{PP} = 5A t _p = 8/20 μs	-	-	24	V
Junction Capacitance	C _J	Between pin1.2 to 3 V _R =0V,f=1MHz	-	-	1.0	pF

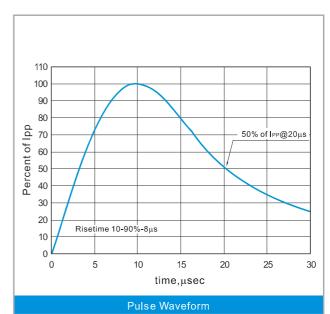
PJDLC15 Makring DJ5							
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units	
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	15	V	
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	16.7	-	-	V	
Reverse Leakage Current	I _R	V _{RWM} = 15V, T = 25°C	-	-	1	μΑ	
Clamping Voltage	V _c	I _{PP} = 1A t _p = 8/20 μs	-	-	24	V	
Clamping Voltage	V _c	I _{PP} = 5A t _p = 8/20 μs	-	-	30	٧	
Junction Capacitance	C _J	Between pin1.2 to 3 V _p =0V,f=1MHz	-	-	1.2	pF	

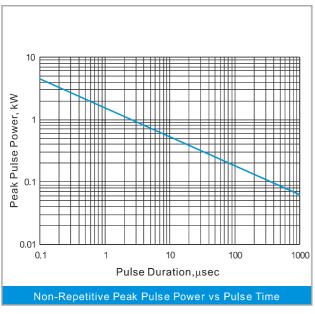
PJDLC24 Marking DJ4						
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	24	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	26.7	-	-	V
Reverse Leakage Current	I _R	$V_{RWM} = 24V,$ $T = 25^{\circ}C$	-	-	1	μΑ
Clamping Voltage	V _c	I _{pp} = 1A t _p = 8/20 μs	-	-	43	>
Clamping Voltage	V _c	I _{PP} = 5A t _p = 8/20 μs	-	-	55	V
Junction Capacitance	C _J	Between Pin 1.2 to 3 V _R = 0V, f = 1MHz	-	-	1.0	pF

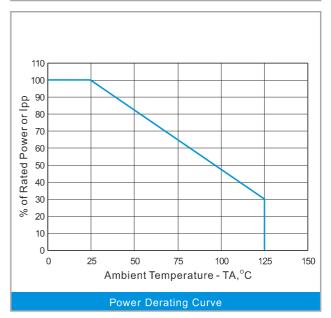








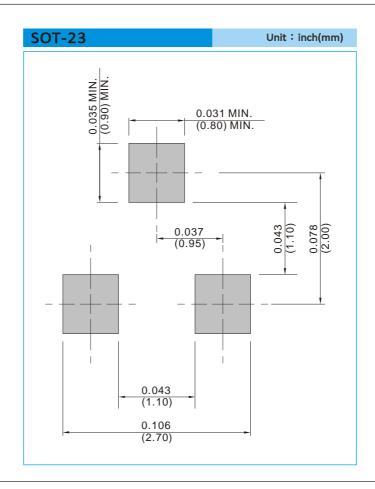








MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





Part No_packing code_Version

PJDLC05_R1_00001 PJDLC05_R2_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)	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	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					





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.