

#### PJDLC05~PJDLC24 **SOT-23** VOLTAGE Unit : inch(mm) 5 to 24 Volt POWER 400 Watt ULTRA LOW CAPACITANCE DUAL TRANSIET VOLTAGE SUPPRESSOR FOR HIGH SPEED DATA LINES 0.006(0.15)MIN. This transient overvoltage suppressor is intended to prodect sensitive equipment 0.120(3.04) againset electrostatic discharge events as well to offer a minmum Insertion loss 0.110(2.80) 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** 0.103(2.60) 0.086(2.20) Maximum capacitance @ 0 Vdc Bias of 1.2 pF between terminals 1-3 0.056(1.40) or terminals 2-3 0.047(1.20) • IEC61000-4-2 esd 15kV Air, 8kV contact compliance · Lead free in compliance with EU RoHS 2011/65/EU directive 0.008(0.20) 0.079(2.00) 0.070(1.80) 0.003(0.08) • Green molding compound as per IEC61249 Std. . (Halogen Free) **MECHANICALDATA** · Case: SOT-23, plastic 0.004(0.10) 0.044(1.10) 0.000(0.00) 0.035(0.90) • Terminals: solderable per MIL-STD-750, Method 2026 · Approx. Weight: 0.0003 ounces, 0.008 grams 0.020(0.50) 0.013(0.35) € Fig.21 MAXIMUM RATINGS ſ Symbol \/~I 1.1.-14 -. .

Parameter	Symbol	value	Units
Operating Junction	ТJ	-55 to +125	°C
Storage Temperature Range	Tstg	-55 to +150	°C

#### **ELECTRICAL CHARACTERISTICS**

PJDLC05 Makring T2S						
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-Off Voltage	V <sub>RWM</sub>	-	-	-	5	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>T</sub> =1mA	6	-	-	V
Reverse Leakage Current	I <sub>R</sub>	$V_{RWM} = 5V,$ T = 25°C	-	-	20	μΑ
Clamping Voltage	V <sub>c</sub>	I <sub>PP</sub> = 1A t <sub>p</sub> = 8/20 μs	-	-	9.8	v
Clamping Voltage	V <sub>c</sub>	I <sub>pp</sub> = 5A t <sub>p</sub> = 8/20 μs	-	-	11	V
Junction Capacitance	C	Between pin1.2 to 3 V <sub>R</sub> =0V,f=1MHz	-	-	1.0	pF



PJDLC12 Makring DJ2							
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units	
Reverse Stand-Off Voltage	V <sub>RWM</sub>	-	-	-	12	V	
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>T</sub> =1mA	13.3	-	-	V	
Reverse Leakage Current	I <sub>R</sub>	$V_{RWM} = 12V,$ T = 25°C	-	-	1	μΑ	
Clamping Voltage	V <sub>c</sub>	I <sub>PP</sub> = 1A t <sub>p</sub> = 8/20 μs	-	-	19	v	
Clamping Voltage	V <sub>c</sub>	I <sub>PP</sub> = 5A t <sub>p</sub> = 8/20 μs	-	-	24	V	
Junction Capacitance	C'	Between pin1.2 to 3 V <sub>R</sub> =0V,f=1MHz	-	-	1.0	pF	
PJDLC15 Makring DJ5			1		1		
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units	
Reverse Stand-Off Voltage	V <sub>RWM</sub>	-	-	-	15	V	
Reverse Breakdown Voltage	$V_{BR}$	I <sub>T</sub> =1mA	16.7	-	-	V	
Reverse Leakage Current	I <sub>R</sub>	$V_{RWM} = 15V,$ T = 25°C	-	-	1	μΑ	
Clamping Voltage	V <sub>c</sub>	I <sub>PP</sub> = 1A t <sub>p</sub> = 8/20 μs	-	-	24	V	
Clamping Voltage	V <sub>c</sub>	I <sub>pp</sub> = 5A t <sub>p</sub> = 8/20 μs	-	-	30	V	
Junction Capacitance	C」	Between pin1.2 to 3 V <sub>R</sub> =0V,f=1MHz	-	-	1.2	pF	
	-		1	1	1		
PJDLC24 Marking DJ4							
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units	
Reverse Stand-Off Voltage	V <sub>RWM</sub>	-	-	-	24	V	
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>T</sub> =1mA	26.7	-	-	V	
Reverse Leakage Current	I <sub>R</sub>	$V_{RWM} = 24V,$ T = 25°C	-	-	1	μΑ	
Clamping Voltage	V <sub>c</sub>	I <sub>pp</sub> = 1A t <sub>p</sub> = 8/20 μs	-	-	43	v	
Clamping Voltage	V <sub>c</sub>	I <sub>pp</sub> = 5A t <sub>p</sub> = 8/20 μs	-	-	55	v	
Junction Capacitance	C	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.



-

Packing size code means 13"

Packing type means T/R

Packing Code XX					Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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					



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