

## PJDLC05C-02

VOLTAGE

5.0 Volts

200 Watts

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

This transient overvoltage suppressor is intended to protect sensitive equipment against electrostatic discharge events as well to offer a minimum insertion loss in data transmission lines in communications ports used in portable consumer, computing and networking applications. This dual transient voltage suppressor comes in a single SOT-23, offering board space reduction, where the application requires it.

POWER

This device comes with two pairs of high speed switching diodes connected in series, where both pairs are electrically isolated, offering a very low capacitance, minimizing the insertion losses in data transmission lines.

#### FEATURES

- Maximum capacitance @ 0 Vdc Bias of 1.0 pF between terminals 1-3 or terminals 2-3
- · IEC61000-4-2 esd 15kV Air, 8kV contact compliance
- · Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

#### MECHANICAL DATA

- Case: SOT-23, plastic
- Terminals: solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounce, 0.0084 gram
- Marking : DAA



Fig.21

#### MAXIMUM RATINGS

PARAMETER	SYMBOL	VALUE	UNITS
Operating Junction	TJ	-55 to +150	°C
Storage Temperature Range	Tstg	-55 to +150	°C

#### ELECTRICAL CHARACTERISTICS

PJDLC05C-02									
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 <sub>RWM</sub> = 5V, T = 25°C	-	-	20	μA			
Junction Capacitance	CJ	Between pin1.2 to 3 V <sub>R</sub> =0V,f=1MHz	-	-	1.0	pF			
Peak Pulse Current	I <sub>pp</sub>	t <sub>P</sub> =8/20 μsec	-	-	10	А			
Max Clamping Voltage	V <sub>c</sub>	t <sub>P</sub> =8/20 μsec	-	-	20.5	V			

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February 16,2010-REV.02



FIG.3- TYPICAL LEAKAGE CURRENT JUNCTION TEMPERATURE

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5





#### MOUNTING PAD LAYOUT



#### **ORDER INFORMATION**

Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

din'

PAGE . 4

## SEMI CONDUCTOR

PAN

PJDLC05C-02

Part No\_packing code\_Version

PJDLC05C-02\_R1\_00001 PJDLC05C-02\_R2\_00001

### For example :





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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