

PJDLC05W

VOLTAGE 5 Volts **POWER** 120 Watts

SOT-323 Unit : inch(mm)

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

This transient overvoltage suppressor is intended to protect sensitive equipment against electrostatic discharge events as well as 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-323, offering board space reduction, where the application requires it.

FEATURES

- Improved leakage current, maximum of 20 μ A @ 5Vdc
- 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
- IEC61000-4-5 lightning 5 Amps peak, 8x20 usec waveform
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case: SOT-323, plastic

Terminals: solderable per MIL-STD-750, Method 2026

Approx. Weight : 0.005 grams

Marking : 2S

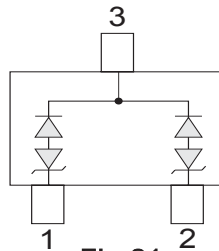
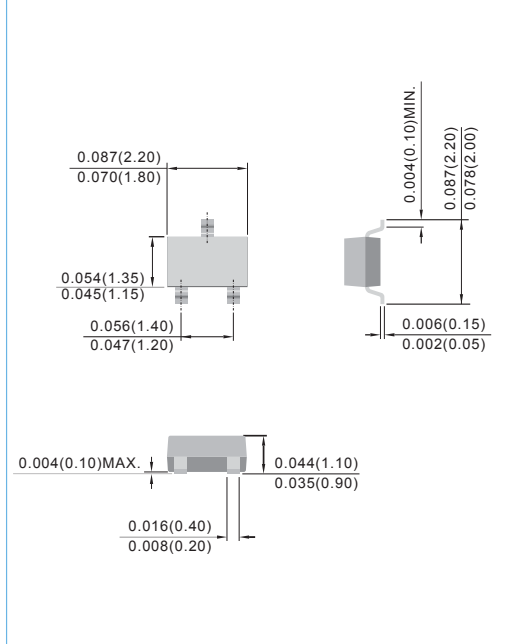


Fig.21



MAXIMUM RATINGS

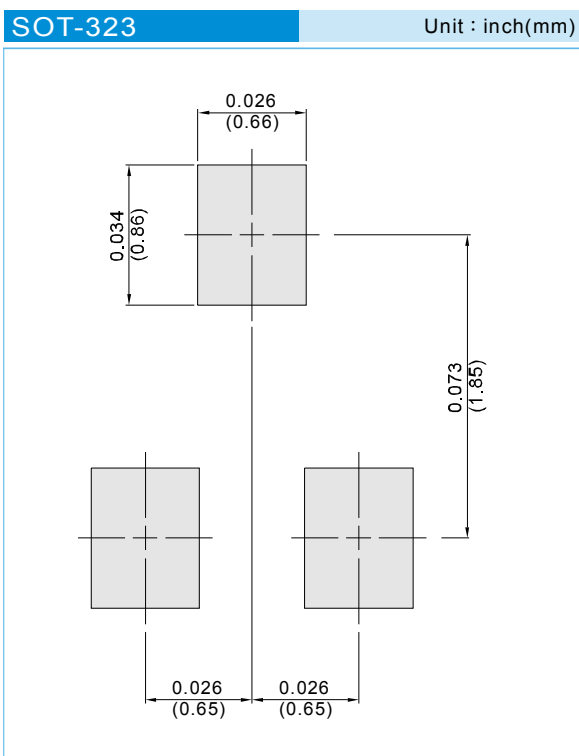
Rating	Symbol	Value	Units
Peak Pulse Power 8x20 μ s Waveform	P _{PP}	120	W
Peak Pulse Current 8x20 μ s Waveform	I _{PP}	10	A
ESD Voltage (HBM)	V _{ESD}	>25	kV
Operating Temperature	T _L	-55 to +125	°C
Storage Temperature	T _{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

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Parameter	Symbol	Conditions	Minimum	Typical	Maximum	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°C			20	μ A
Clamping Voltage	V _C	I _{PP} = 1A t _p = 8/20 μ s			9.8	V
Clamping Voltage	V _C	I _{PP} = 5A t _p = 8/20 μ s			11	V
Peak Pulse Current	I _{PP}	t _p = 8/20 μ s			10	A
Junction Capacitance	C _J	Pin 1 or 2 to pin 3(GND) V _R = 0V, f = 1MHZ			1.2	pF

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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

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Part No_packing code_Version

PJDLC05W_R1_00001

PJDLC05W_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)	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			



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