



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 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-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

Appox. Weight : 0.005 grams

Marking : 2S

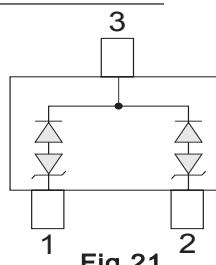
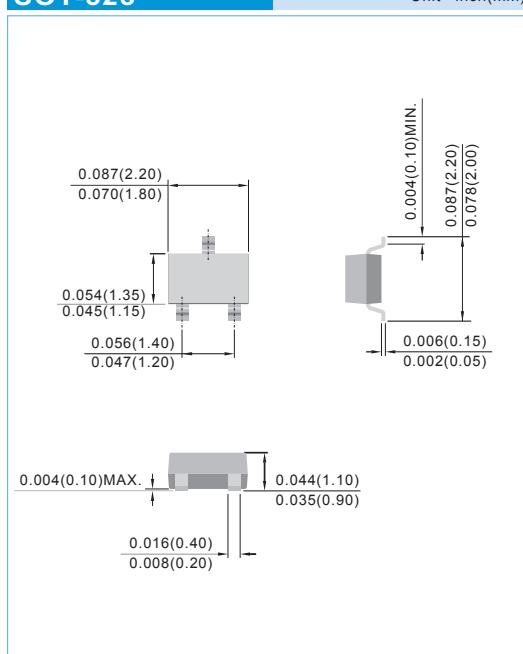


Fig.21



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	$^{\circ}$ C
Storage Temperature	T_{STG}	-55 to +150	$^{\circ}$ C

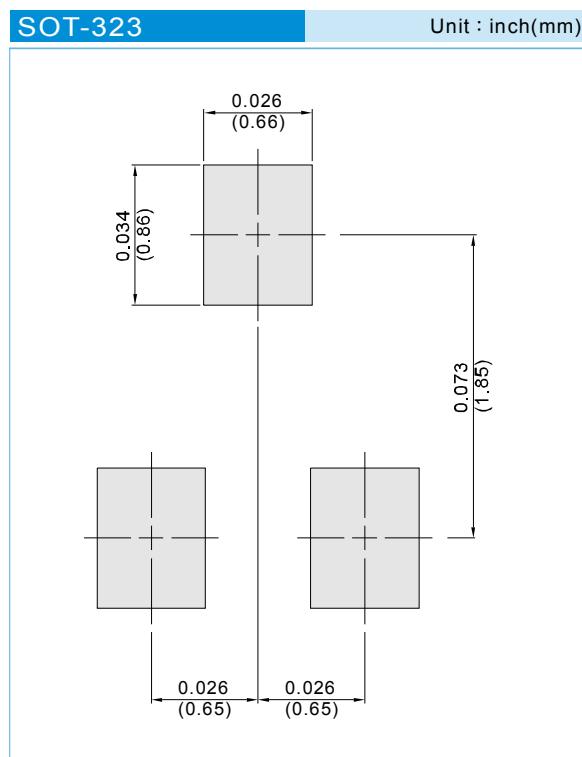
ELECTRICAL CHARACTERISTICS

PJDLC05W						
Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	$I_i = 1mA$	6			V
Reverse Leakage Current	I_R	$V_{RWM} = 5V$, $T = 25^{\circ}C$			20	μ A
Clamping Voltage	V_C	$I_{PP} = 1A$ $t_p = 8/20 \mu s$			9.8	V
Clamping Voltage	V_C	$I_{PP} = 5A$ $t_p = 8/20 \mu s$			11	V
Peak Pulse Current	I_{PP}	$t_p = 8/20 \mu s$			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



PJDL05W

Part No_packing code_Version

PJDL05W_R1_00001

PJDL05W_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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