



PJDLC05C-05

VOLTAGE 5.0 Volts **POWER** 400 Watts

SOT-23 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-23, offering board space reduction, where the application requires it.

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
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

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

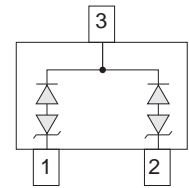
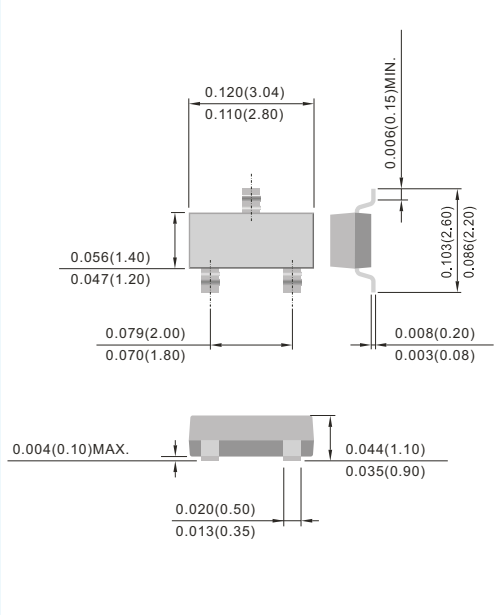


Fig.21

MAXIMUM RATINGS

Parameter	Symbol	Value	Units
Operating Junction	T _J	-55 to +150	°C
Storage Temperature Range	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	-	0.8	1.2	μA
Junction Capacitance	C _J	Between pin1,2 to 3 V _B =0V,f=1MHz	-	-	1.0	pF
Peak Pulse Current	I _{PP}	t _p =8/20 μsec	-	-	17	A
Clamping Voltage	V _C	t _p =8/20 μsec @1A	-	-	9.5	V
Clamping Voltage	V _C	t _p =8/20 μsec @5A	-	-	12	V



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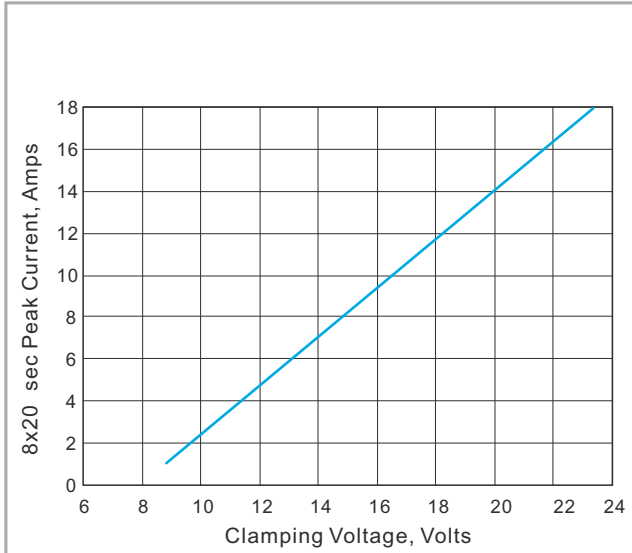


Fig 1- Clamping Voltage vs Ipp 8x20 sec

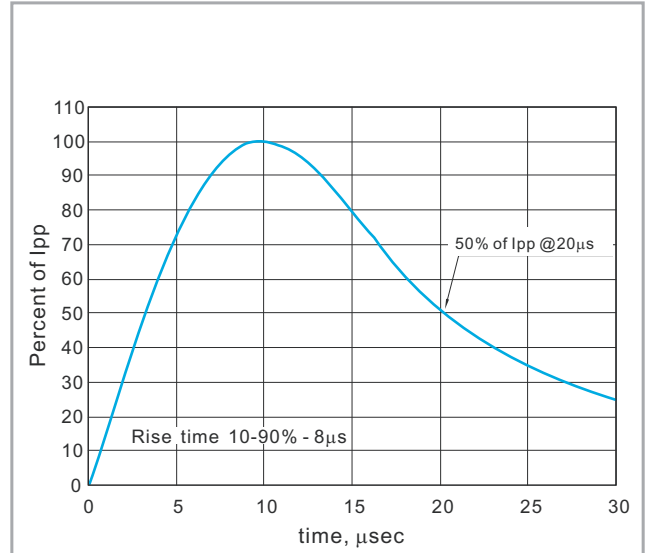


Fig 2- Pulse Waveform

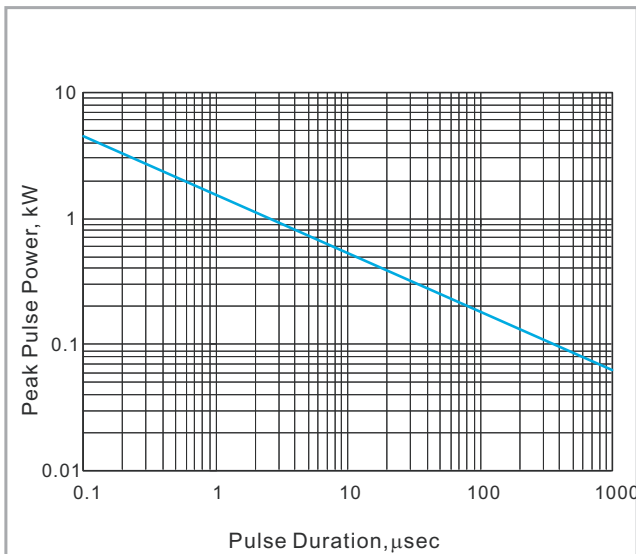


Fig 3- Non-Repetitive Peak Pulse Power vs Pulse Time

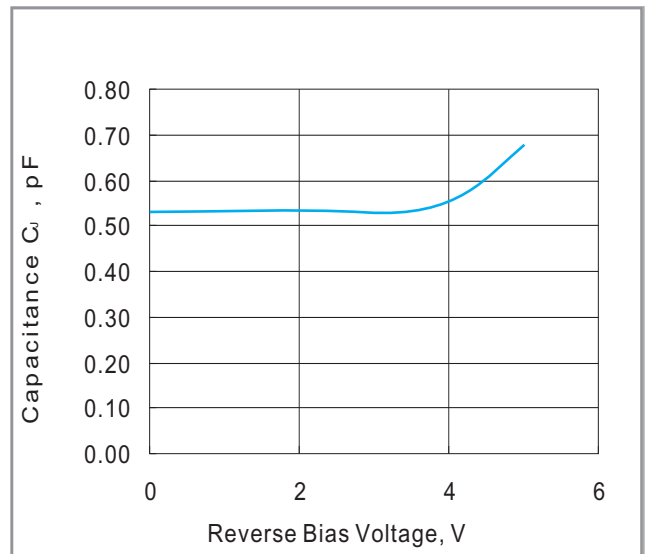
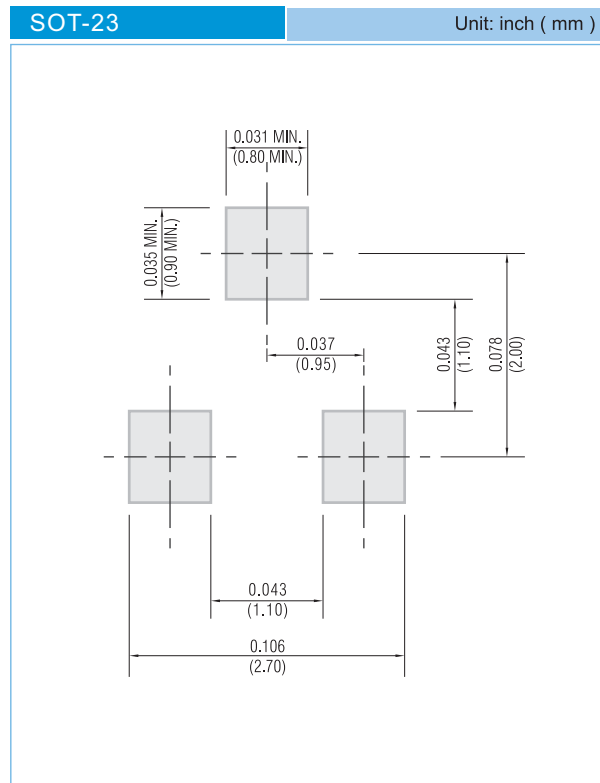


FIG.4- TYPICAL JUNCTION CAPACITANCE UNDER BIAS



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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

LEGAL STATEMENT

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