



PJDLC05C-02TB

VOLTAGE

5.0 Volts

POWER

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-523, 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-523, plastic

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

• Approx. Weight: 0.00007ounce, 0.002 gram

• Marking: M7

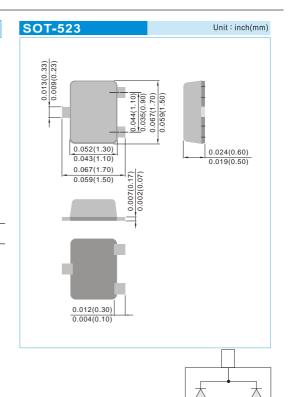


Fig.21

MAXIMUM RATINGS

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

ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	CONDITIONS	Min.	Тур.	Max.	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 _J = 25°C	-	-	20	μΑ
Junction Capacitance	C	Between pin1.2 to 3 V _R =0V,f=1MHz	-	-	1.0	pF
Peak Pulse Current	I _{PP}	t _p =8/20 μsec	-	-	10	Α
Max .Clamping Voltage	V _c	t _P =8/20 μsec	-	-	20.5	V

PAN JIT RESERVES THE RIGHT TO CHANGE THE SPECIFICATION ANY TIME WITHOUT NOTICE IN ORDER TO IMPROVE THE DESIGN AND SUPPLY THE BEST POSSIBLE PRODUCT.

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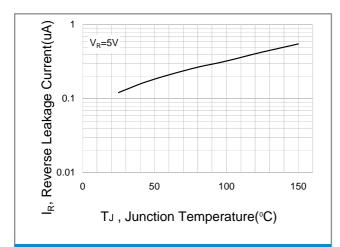


Fig.1 TYPICAL LEAKAGE CURRENT JUNCTION TEMPERATURE

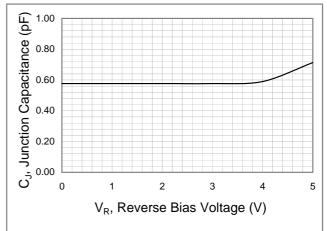


Fig.2Typical Junction Capacitance

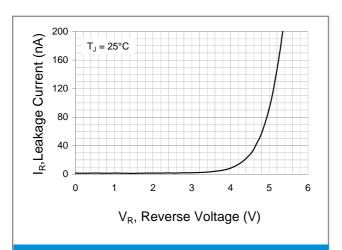


Fig.3 Typical Reverse Characteristics

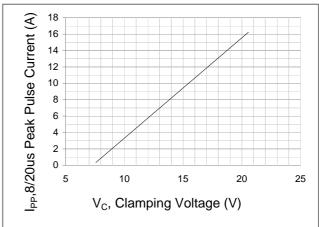


Fig.4 Typical Peak Clamping Voltage

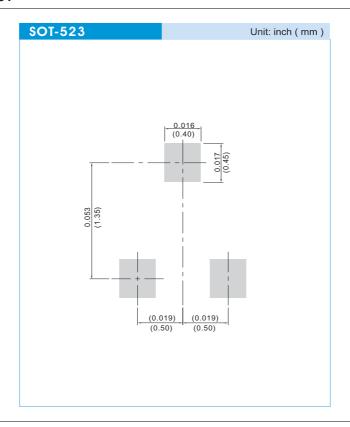
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MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 4K per 7" plastic Reel

LEGAL STATEMENT

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