



LOW CAPACITANCE SINGLE TVS 200W FOR HIGH SPEED DATA LINES

This Transient Voltage Suppressor is intended to Protect Sensitive Equipment against Electrostatic Discharge and Transient Events as well to offer a Miminum insertion loss in high speed data communication transmission line ports used in Portable Consumer, Computing and Networking Applications.

SPECIFICATION FEATURES

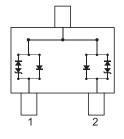
- Working Peak Reverse Voltage Range-5V
- Max Power Dissipation of 200W 8/20μs
- Maximum Leakage Current of 1µA
- IEC61000-4-2 Compliance 15kV Air, 8kV Contact Discharge
- Max capacitance of 3pF at 0V dc
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: SOT-23, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Apporx. Weight: 0.0003 ounce, 0.0084 gram
- Marking: LC5

APPLICATIONS

- Mobile Phones and accessories
- Universal Serial Bus (USB1.1 and 2.0) Applications
- Portable Consumer Electronics
- Instrumentation Equipment
- Video I/O Ports

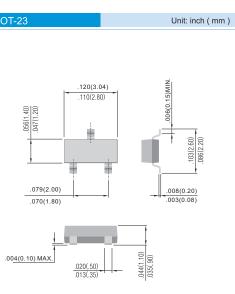


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MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power 8/20µs Waveform	Ррр	200	W
ESD Voltage (HBM)	Vesd	>25	kV
Operating Temperature Range	TJ	-55 to +150	°C
Storage Thermal Resistance	Тѕтс	-55 to +150	°C
Lead Solding Temperature (max 10 secs)	T∟	260	°C

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.

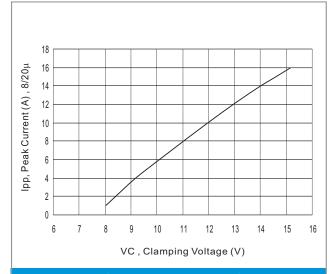




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ELECTRICAL CHARACTERISTICS TJ=25°C

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Parameter	Symbol	Condition	Min	Тур	Max	Units
Reverse Stand-Off Voltage	Vwrm		-	-	5	V
Reverse Breakdown Voltage	Vbr	Ibr=1mA	6	-	-	v
Reverse Leakage Current	l r	VR=5V	-	-	1	μA
Clamping Voltage (8x20 µsec)	Vc	IPP=5A	-	-	11.5	v
Clamping Voltagee (8x20 μsec)	Vc	IPP=10A	-	-	14.5	v
Maxmum Peak Pulse Current	I _{PP}	8/20 μs Waveform	-	-	15	А
Off State Junction Capacitance	CJ	0 Vdc Bias f=1MHz Between pins 1.3 or 2.3	-	2.4	3	pF



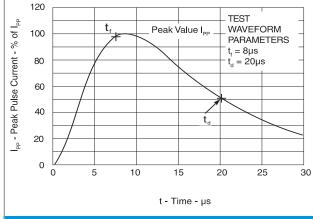
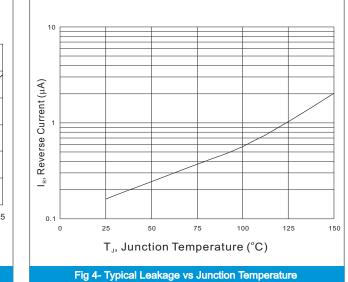


Fig 1- Clamping Voltage vs Peak Current





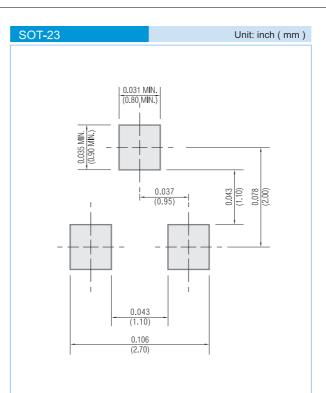
3 CJ, Junction Capacitance (pF) 2.5 2 1.5 1 0.5 0 0 1 2 3 4 5 V_R, Reverse Bias Voltage (V) Fig 3- Typical Junction Capacitance under Bias

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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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