PANJIT SEMI CONDUCTOR

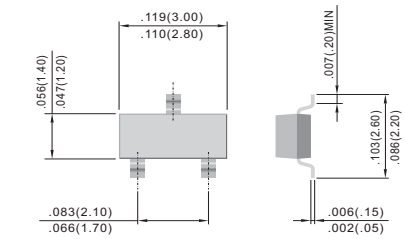
DATA SHEET

PJSLC05

ULTRA LOW CAPACITANCE SINGLE TRANSIENT OVERVOLTAGE SUPPRESSOR FOR HIGH SPEED DATA LINES

VOLTAGE 5 Volts **POWER** 400mWatts

SOT-23 Unit: inch (mm)

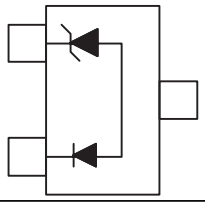


FEATURES

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
Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

MECHANICAL DATA

Case: SOT-23 plastic case.
Terminals : Solderable per MIL-STD-202G,Method 208
Standard packaging: 8mm tape
Weight: approximately 0.008g

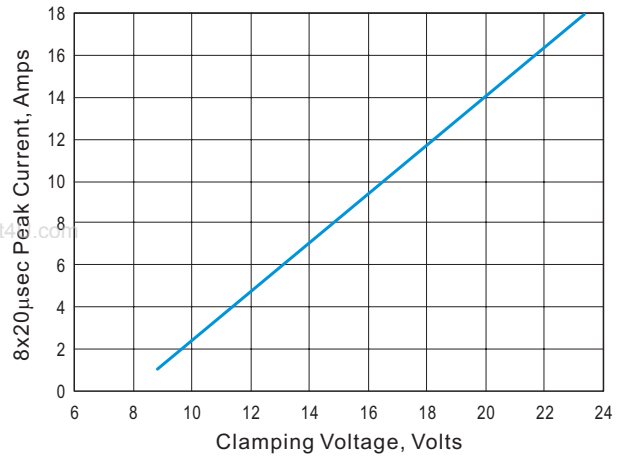


MAXIMUM RATINGS

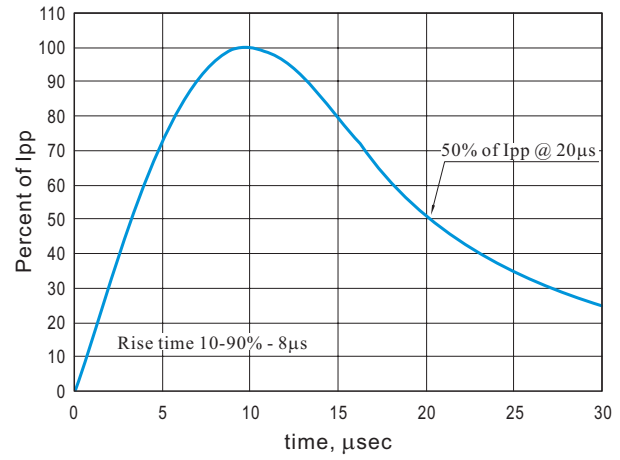
Parmeter	Symbol	value	Units
Peak Pulse Power 8 × 20 usec Waveform	P_{PK}	400	W
Peak Pulse Current 8 × 20 ge usec Waveform	I_{PP}	17	A
ESD Voltage (HBM)	V_{ESD}	>25	$_{K}$V
Operating Temperature	T_L	-50 to +125	℃
Storage Temperature	T_{STG}	-50 to +150	℃

ELECTRICAL CHARACTERISTICS Tj = 25°C

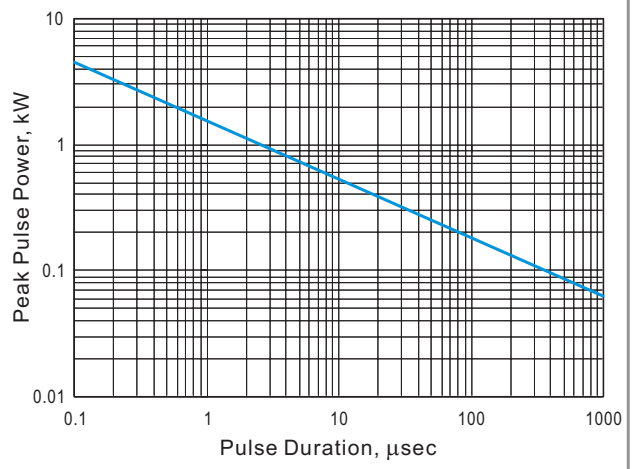
Parmeter	Symbol	Conditions	Min	Typical	Max.	Units
Reverse Stand-Off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I_{BR} = 1mA	6			
Reverse Leakage Current	I_R	V_{RRM} = 5V			5	$_{U}$A
Clamping Voltage	V_C	I_{PP} = 1A			9.5	A
Clamping Voltage	V_C	8 × 20 usec			12	V
Maximum Peak Pulse Curent	I_{PP}	8 × 20 usec Waveform			17	A
Junction Capacitance (Terminals 1-2)	C_J	0Vdc, 1MHz			12	Pf



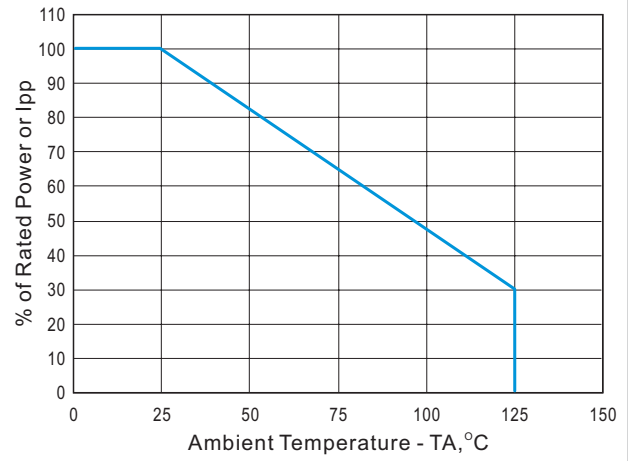
Clamping Voltage vs Ipp 8x20µsec



Pulse Waveform



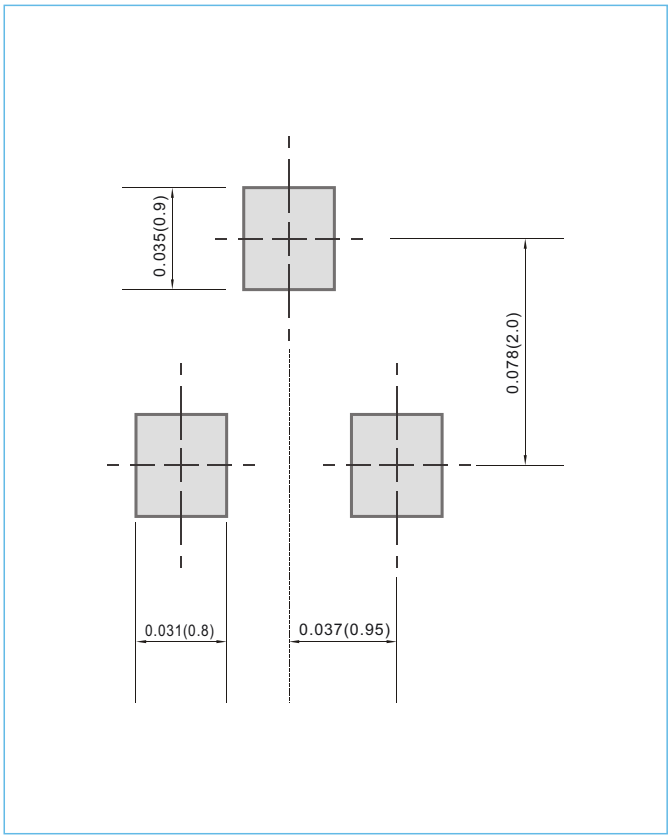
Non-Repetitive Peak Pulse Power vs Pulse Time



Power Derating Curve

MOUNTING PAD LAYOUT

SOT-23 Unit: inch (mm)



ORDER INFORMATION

- Packing information

  T/R - 12K per 13" plastic Reel

  T/R - 3.0K per 7" plastic Reel

LEGAL STATEMENT

IMPORTANT NOTICE

This information is intended to unambiguously characterize the product in order to facilitate the customer's evaluation of the device in the application. The information will help the customer's technical experts determine that the device is compatible and interchangeable with similar devices made by other vendors. The information in this data sheet is believed to be reliable and accurate. The specifications and information herein are subject to change without notice. New products and improvements in products and product characterization are constantly in process. Therefore, the factory should be consulted for the most recent information and for any special characteristics not described or specified.