



PJLC1V5

LOW CAPACITANCE ESD / TRANSIENT DATA LINE PROTECTOR FOR 1.5V SYSTEMS

VOLTAGE 1.5 Volts **POWER** 50 Watts

SOT-23 Unit: inch (mm)

FEATURES

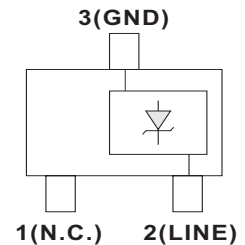
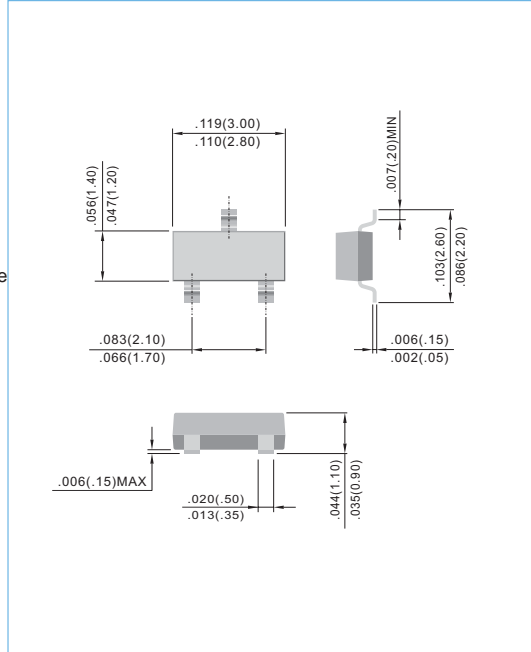
- Off-State Capacitance typical of 6pF, max 10pF @ 1MHz 0Vdc
- Maximum Leakage Current of 1 μ A @ 1.5V
- Breakdown Voltage of 2.2V @ 1mA
- IEC61000-4-2 Compliance (8kV Air, 15kV Contact Discharge)
- Industry Standard Surface Mount Package SOT23
- Pb free product are available : 99% Sn above can meet RoHS environment substance directive request

APPLICATIONS

- High Speed Data Lines
- Microcontroller and Microprocessor I/O interfaces
- Mobile Phone and PDA's
- LAN/WAN Equipment
- Instrumentation Equipment

MECHANICAL DATA

- Case: Molded Plastic SOT-23
- Marking : T1L



MAXIMUM RATINGS

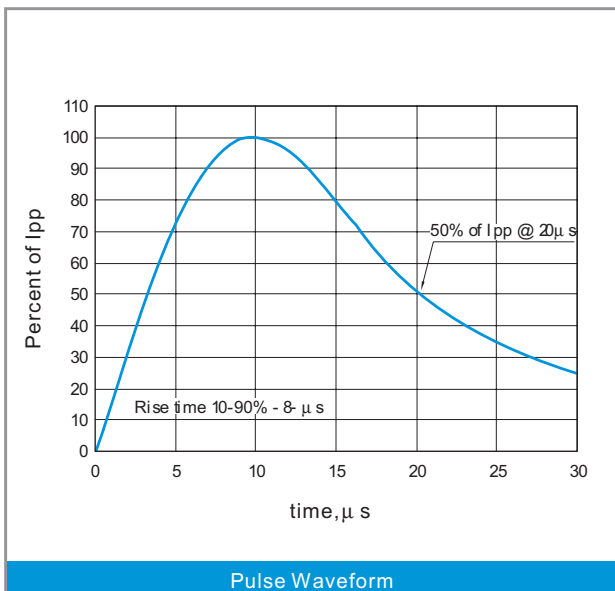
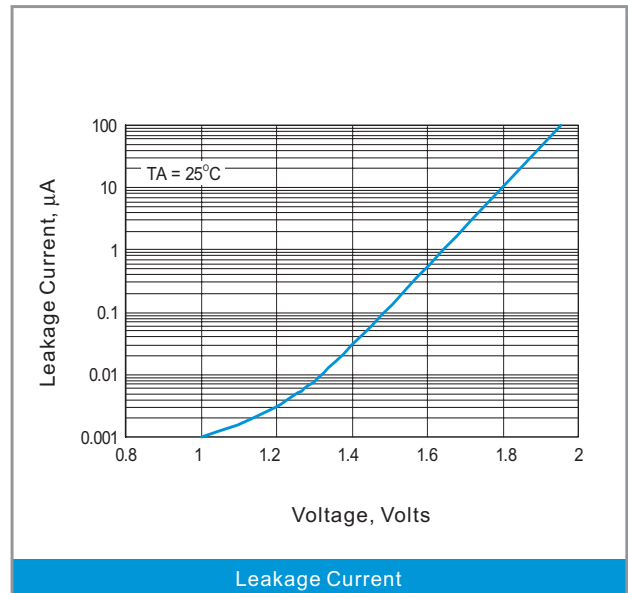
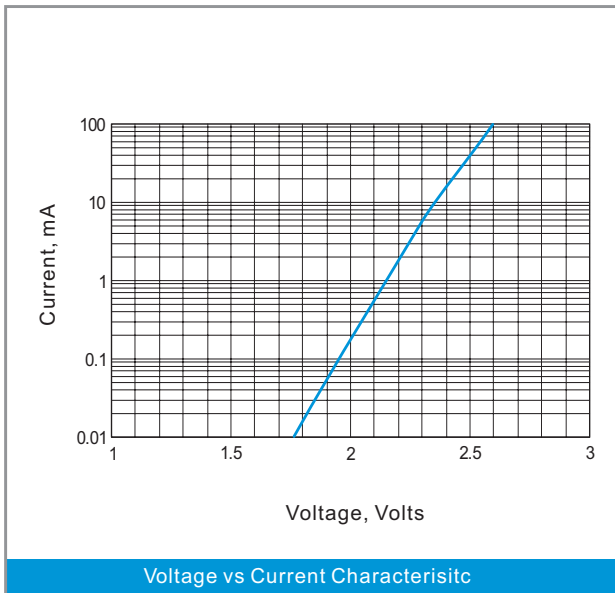
PATING	SYMBOL	VALUE	UNITS
Peak Pulse Power (8/20 μ s Waveform)	P _{PK}	50	W
ESD Voltage (per IEC61000-4-2)	V _{ESD}	25	kV
Lead Soldering Temperature (max 10 seconds)	T _L	260	°C
Operating Temperature Range	T _J	-50 to 150	°C
Storage Temperature Range	T _{STG}	-50 to 150	°C
Maximum Peak Pluse Current	I _{PP}	1	A



ELECTRICAL CHARACTERISTICS

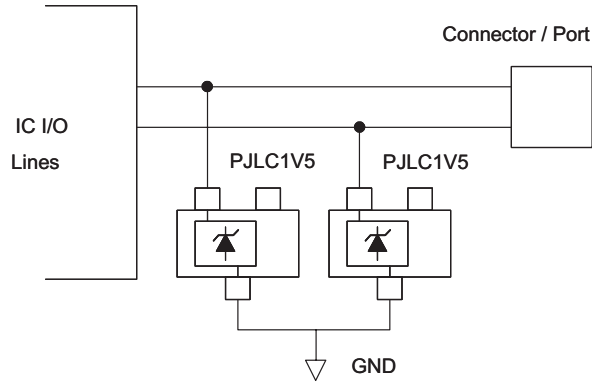
PARAMETER	SYMBOL	CONDITIONS	MIN.	TYPICAL	MAX.	UNITS
Reverse Stand-Off Voltage	V_{RWM}				1.5	V
Reverse Breakdown Voltage	V_{BR}	@100 μ A @1mA	1.75 2.1	1.8 2.2		V
Reverse Leakage Current	I_R	$V_{RWM}=1.5V$ @ $T_A=25^\circ C$			1	μ A
Clamping Voltage	V_C	$I_{PP}=1A$ @8/20 μ s			4	V
Clamping Voltage	V_C	$I_{PP}=3A$ @8/20 μ s			7	V
Off-State Capacitance	C_J	Pin 1 to Pin 3 1MHz, 0Vdc		6	10	pF

RATING AND CHARACTERISTICS CURVES

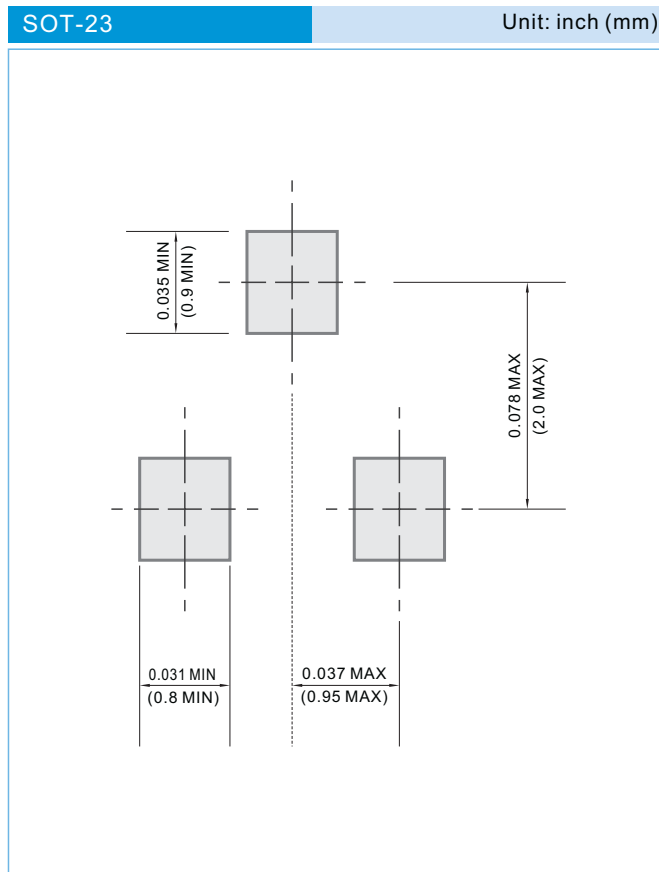




Typical Application Configuration (Shown for two data lines)



MOUNTING PAD LAYOUT





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.

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