

PJSRV05-4, PJSRV05W-4



Low Capacitance TVS and Diode Array

This diode array is configured to protect up to four data transmission lines acting as a line terminator, minimizing overshoot and undershoot conditions due to bus impedance as well as protect against over-voltage events as electrostatic discharges. Additionally the TVS Device offers overvoltage transient protection between the operating voltage bus and ground plane.

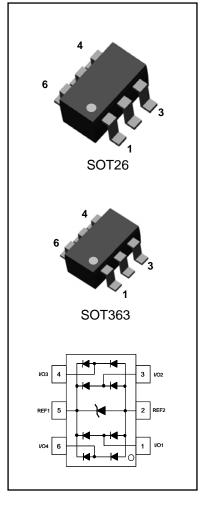
SPECIFICATION FEATURES

- Peak Power Dissipation of 350W 8/20µs
- Maximum Capacitance of 5pF at 0Vdc 1MHz Line-to-Ground
- Maximum Leakage Current of 5µA @ VRWM
- Available in SOT23-6L and SOT363 packages
- IEC61000-4-2, IEC61000-4-4 and IEC61000-4-5 Full Compliance
- 100% Tin Matte finish (LEAD-FREE PRODUCT)

APPLICATIONS

- USB 2.0 and Firewire Port Protection
- LAN/WLAN Access Point terminals
- Video Signal line protection
- I²C Bus Protection
- Touch Panel Controller lines protection

Device	Marking Code		
PJSRV05-4	054		
PJSRV05W-4	W5		





MAXIMUM RATINGS Tj = 25°C Unless otherwise noted

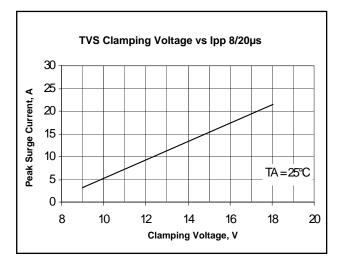
Rating	Symbol	Value	Units
Peak Pulse Power (8/20µs Waveform)	P _{PPM}	350	W
Peak Pulse Current (8/20µs Waveform)	I _{PP}	20	Α
Operating Junction Temperature Range	ТЈ	-55 to +150	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C
Soldering Temperature, t max = 10s	TL	260	°C

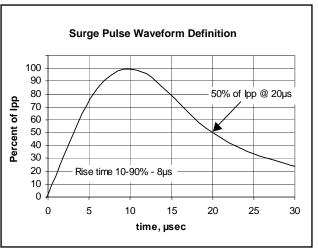


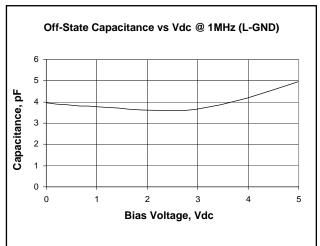


ELECTRICAL CHARACTERISTICS Tj = 25°C unless otherwise noted

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{WRM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _{BR} = 1mA	6.2			V
Reverse Leakage Current	I _R	$V_R = 5V$			5	μΑ
Clamping Voltage (8/20µs)	V _C	$I_{pp} = 3A$			10	V
Clamping Voltage (8/20µs)	V _c	I _{pp} = 12A			15	V
Clamping Voltage (8/20µs)	V _c	I _{pp} = 20A			18	V
Off State Junction Capacitance	Cj	0 Vdc Bias f = 1MHz Between I/O pins and GND		4	5	pF
		0 Vdc Bias f = 1MHz Between I/O pins		2	3	pF



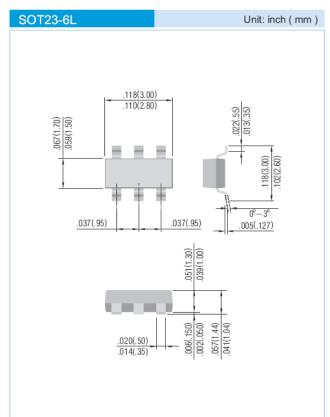


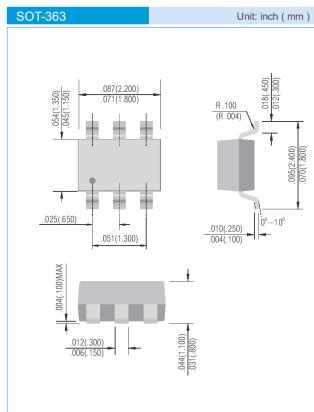




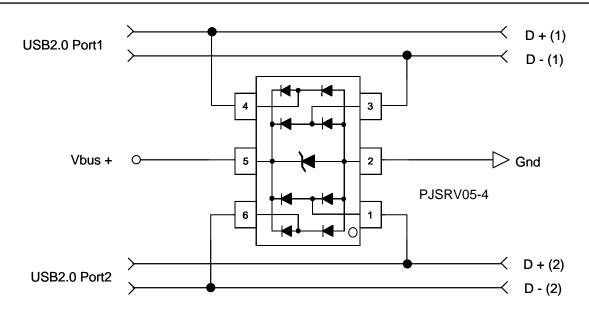


PACKAGE DIMENSIONS





TYPICAL APPLICATION CONFIGURATION



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