



PJSRV05W-4LC

LOW CAPACITANCE TVS DIODE ARRAY

The PJSRV05W-4LC has a low typical capacitance of 0.8pF and operates with virtually no insertion loss to 1GHz. This makes the device ideal for protection of high-speed data lines such as USB2.0, Firewire, DVI, and Gigabit Ethernet interfaces.

The low capacitance array configuration allows the user to protect four high-speed data or transmission lines. The low inductance construction minimizes voltage overshoor during high current surge.

FEATURES

- IEC61000-4-2 ESD 15kV Air,8kV Contact compliance
- · Low leakage current
- · Low clamping voltage
- Peak power dissipation of 150W under 8/20 μs waveform
- · Protect four I/O lines
- · Molded JEDEC SOT-363 package
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MECHANICAL DATA

- · Case: SOT-363, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: approximately €È€€€GÁ(*) &^• ÉÁ0.006 gram•
- · Marking : KC

APPLICATIONS

- USB 2.0 Power and Data Line Protection
- · Video Graphics Cards
- · Mouitors and Flat Panel Displays
- · Digital Vedio Interface (DVI)
- 10/100/1000 Ethernet
- · ATM Interfaces

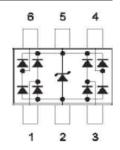
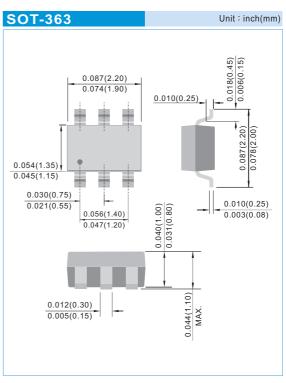


Fig.70



ABSOLUTE MAXIMUM RATINGS (TA=25°C unless otherwise noted)

RATING	SYMBOL	VALUE	UNIT
Peak Pulse Power (8/20μs waveform)	Рр	150	W
Peak Pulse Current (8/20μs waveform)	I ррм	6	Α
ESD Voltage (HBM Contact)	VESD	>8	kV
Operating Junction Temperature and Storage Temperature Range	Тյ,Тѕтс	-55 to +150	°C

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ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-Off Voltage	VRWM		-	-	5	V
Reverse Breakdown Voltage	VBR	I BR=1mA, PIN 5 to 2	6	-	-	V
Reverse Leakage Current	IR	V _R =5V, PIN 5 to 2	-	1	3	μΑ
Clamping Voltage (8/20μs)	Vc	I PP=1A,Any I/O pin to pin 2	-	-	15	V
Clamping Voltage (8/20μs)	Vc	I PP=6A,Any I/O pin to pin 2	-	-	25	V
Off State Junction Capacitance	Сл	0 Vdc,f=1MHz between I/O lines and GND	-	-	1	pF
Off State Junction Capacitance	Сл	0 Vdc,f=1MHz between I/O lines	-	-	0.5	pF

ELECTRICAL CHARACTERISTIC CURVES

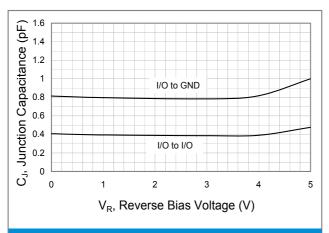


Fig.1 Typical Junction Capacitance

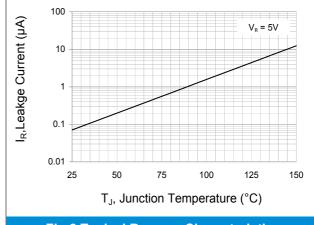


Fig.2 Typical Reverse Characteristics

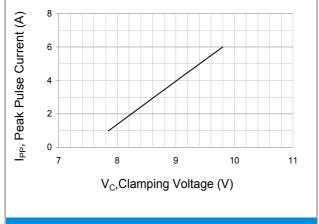


Fig.3 Typical Peak Clamping Voltage (8/20µs)

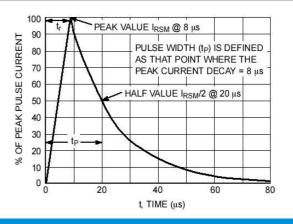


Fig.4 8/20µs Peak Pulse Current Waveform

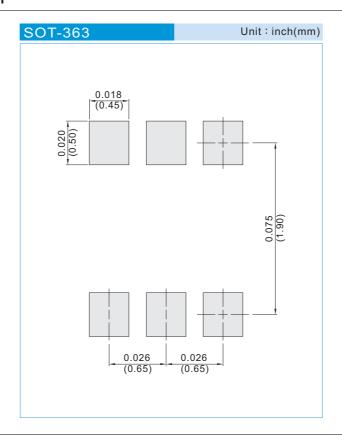
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MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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