



LOW CAPACITANCE TVS DIODE ARRAY

The PJSRV05W-4DW has a low typical capacitance of 1pF 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 overshoot during high current surge.

FEATURES

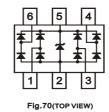
- IEC61000-4-2 ESD 15kV Air,8kV Contact compliance
- · Low leakage current
- · Low clamping voltage
- Peak power dissipation of 50W under $8/20\mu s$ waveform
- Protect four I/O lines
- Molded JEDEC SOT-363 package
- · Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- · Case: SOT-363, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: approximately 0.0002 ounces, 0.006 grams
- Marking : KW

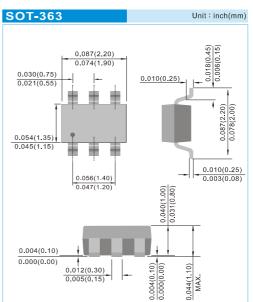
APPLICATIONS

- 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



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

RATING	SYMBOL	VALUE	UNIT
Peak Pulse Power (8/20µs waveform)	Ррр	50	W
Peak Pulse Current (8/20µs waveform)	Іррм	5	А
ESD per IEC61000-4-2 (Air) ESD per IEC61000-4-2 (Contact)	Vesd	<u>+</u> 15 <u>+</u> 8	kV
Operating Junction Temperature and Storage Temperature Range	TJ,TSTG	-55 to +150	°C

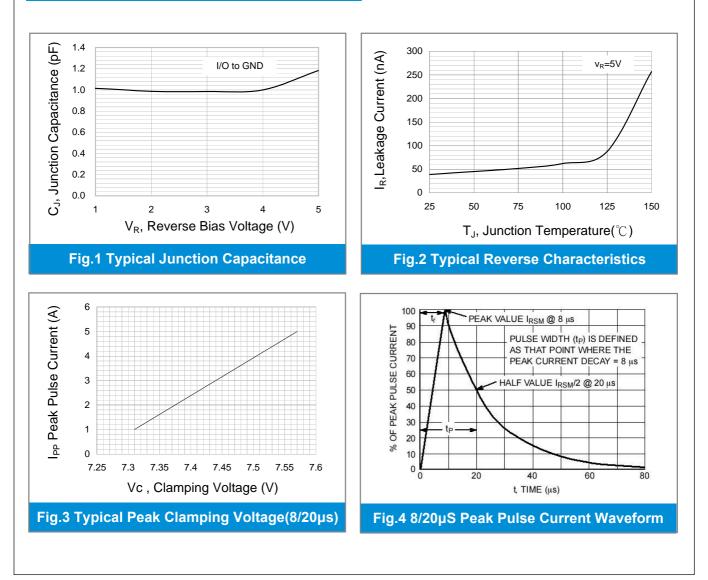




ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

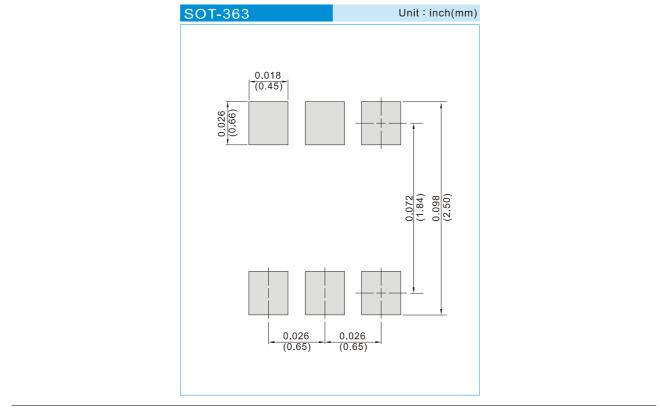
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-Off Voltage	VRWM		-	-	5	V
Reverse Breakdown Voltage	VBR	I BR=1mA, PIN 5 to 2	6	-	8	V
Reverse Leakage Current	IR	VR=5V, PIN 5 to 2	-	-	3	μΑ
Clamping Voltage (8/20µs)	Vc	I PP=1A,Any I/O pin to pin 2	-	-	8	V
Clamping Voltage (8/20µs)	Vc	I PP=5A,Any I/O pin to pin 2	-	-	10	V
Off State Junction Capacitance	Сл	0 Vdc,f=1MHz between I/O lines and GND	-	1	1.2	pF
Off State Junction Capacitance	Сл	0 Vdc,f=1MHz between I/O lines	-	0.5	0.6	pF

RATING AND CHARACTERISTIC CURVES





MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R 10K per 13" plastic Reel
 - T/R 3K per 7" plastic Reel





Part No_packing code_Version

PJSRV05W-4DW_R1_00001 PJSRV05W-4DW_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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