

### LOW CAPACITANCE TVS DIODE ARRAY

The PJSRV05-4 has a low capacitance of 1.2pF and operates with virtually no insertion loes 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 surges. They may be used to meet the ESD immunity requirements of IEC61000-4-2, Level 4(15kV air, 8kV contact discharge).



#### APPLICATIONS

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



#### MAXIMUM RATINGS

Rating	Symbol	Value	Units
Peak Pulse Power (8/20 μs Waveform)	Ррр	350	W
Peak Pulse Current (8/20 μs Waveform)	Іррм	12	A
ESD Voltage (HBM Contact)	Vesd	>8	kV
Operating Junction and Storage Temperature Range	ТЈ,ТЅТС	-55 to +150	°C



Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Reverse Stand-Off Voltage	Vwrm		-	-	5	V
Reverse Breakdown Voltage	Vbr	I BR=1mA, PIN 5 to 2	6	-	-	V
Reverse Leakage Current	l r	V <sub>R</sub> =5V, PIN 5 to 2	-	1.2	5	μΑ
Clamping Voltage (8/20µs)	Vc	I PP=1A,ANY I/O pin to pin 2	-	-	12	V
Clamping Voltage (8/20µs)	Vc	I PP=5A,ANY I/O pin to pin 2	-	-	17	V
Off State Junction Capacitance	CJ	0Vdc, f=1.0MHz between I/O lines and GND	-	1.1	1.2	pF
Off State Junction Capacitance	CJ	0Vdc, f=1.0MHz between I/O lines	-	0.55	0.60	pF

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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





#### Part No\_packing code\_Version

PJSRV05-4-AU\_R1\_000A1 PJSRV05-4-AU\_R2\_000A1 PJSRV05-4-AU\_S1\_000A1 PJSRV05-4-AU\_S2\_000A1

### For example :

#### RB500V-40\_R2\_00001



Serial number
Version code means HF
Packing size code means 13"
Packing type means T/R

Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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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