



Unit : inch(mm)

0.009(0.22)

PJUSB208-AU SERIES

LOW CAPACITANCE DIODE ARRAY

PJUSB208 series is surge rated diode array desiged to protect high speed data interfaces. The PJUSB208 series has been specifically designed to protect sensitive components which are connect to data and transmission lines from over-voltages caused by ESD (electrostatic dischatge), EFT(electrical fast transients), and lightning.

SOT-23 6L

0.057(1.45) MAX 0.119(3.00)

0.075(1.90) BSC

0.020(0.50)

0.051(1.30)

006(0.15)

FEATURES

- Maximum Capacitance of 3pF at 0Vdc 1MHz Line-to-Ground
- + Low leakage current, maximum of $0.1 \mu \text{A}$ at rated voltage
- IEC61000-4-2 ESD 15kV Air, 8kV Contact compliance
- Protect four I/O lines
- Flammability rating UL94V-0
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOT23-6L, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx.Weight : 0.0005 ounces, 0.014 grams
- Marking : PJUSB208 : 208

PJUSB208R : 316

APPLICATIONS

- USB 2.0 and Firewire Port Protection
- LAN / WLAN Access Point terminals
- Video Signal Line Protection

MAXIMUM RATINGS

Rating	Symbol	Value	Units
Rectifier Repetitive Peak Reverse Voltage	Vrrm	70	V
ESD per IEC61000-4-2(Air) ESD per IEC61000-4-2(Contact)	Vesd	>15 >8	kV
Surge Non Repetitive Forward Current-Rectangular waveform tp=2.5µs tp=1ms tp=100ms	IFSM	6 2 1	A
Operating Junction and Storage Temperature Range	TJ,TSTG	-55 to + 150	°C



ELECTRICAL CHARACTERISTICS (TJ=25°C)

PJUSB208-AU FIG.71						
Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Peak Reverse Stand-Off Voltage	Vrrm		-	-	70	v
Reverse Breakdown Voltage	Vbr	I вк = 50µА	85	-	-	V
Reverse Leakage Current	l r	VRWM = 70V	-	0.1	1	μΑ
Off State Junction Capacitance	CJ	0Vdc,f=1MHz between I/O lines and GND	-	-	1	pF
Off State Junction Capacitance	CJ	0Vdc,f=1MHz between I/O lines	-	-	0.9	pF
PJUSB208R-AU FIG.100						
Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Peak Reverse Stand-Off Voltage	Vrrm		-	-	70	v
Reverse Breakdown Voltage	Vbr	I вк = 50µА	85	-	-	v
Reverse Leakage Current	l r	VRWM = 70V	-	0.1	1	μΑ
Off State Junction Capacitance	CJ	0Vdc,f=1MHz between I/O lines and GND	-	-	1	pF
Off State Junction Capacitance	CJ	0Vdc,f=1MHz between I/O lines	-	-	0.9	pF

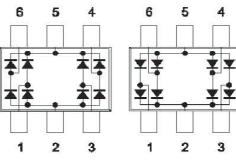
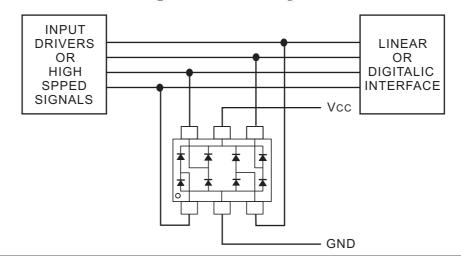


Fig.71

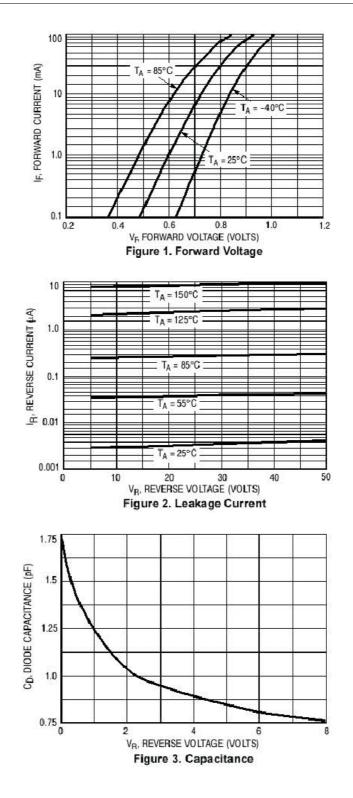
Fig.100







TYPICAL CHARACTERISTICS CURVES

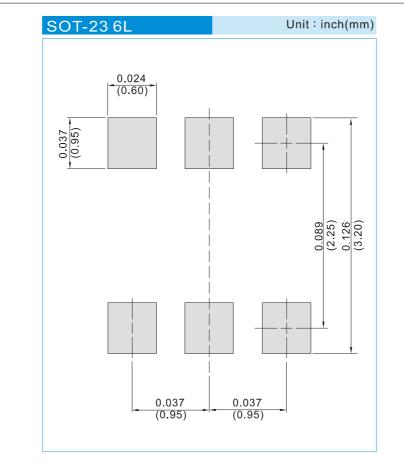


May 19,2016-REV.01





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

PJUSB208-AU_R1_000A1 PJUSB208-AU_R2_000A1 PJUSB208-AU_S1_000A1 PJUSB208-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 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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