



PJUSB208-AU SERIES

LOW CAPACITANCE DIODE ARRAY

PJUSB208 series is surge rated diode array designed 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.

FEATURES

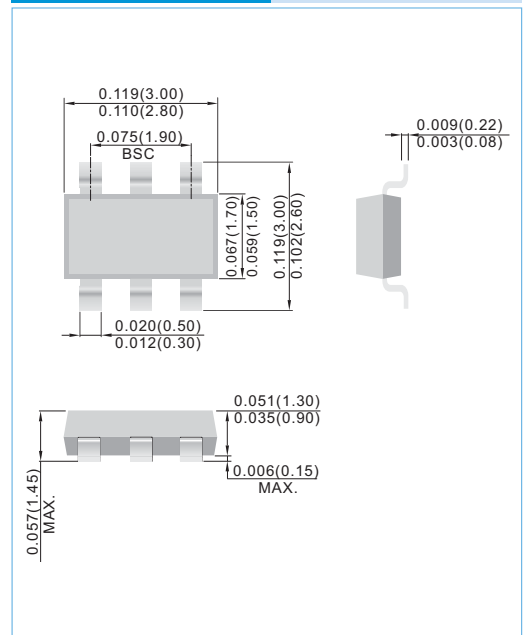
- Maximum Capacitance of 3.0pF at 0Vdc 1MHz Line-to-Ground
- Low leakage current, maximum of 0.1μA at rated voltage
- IEC61000-4-2 ESD 15kV Air, 8kV Contact compliance
- Protect four I/O lines
- Flammability rating UL94V-0
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified

MECHANICAL DATA

- Case: SOT23-6L, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See Diagram Below
- Approx.Weight : 0.014 grams
- Marking : PJUSB208-AU : 208
PJUSB208R-AU : 316

SOT-23 6L

Unit : inch(mm)



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	V _{RRM}	70	V
ESD per IEC61000-4-2(Air) ESD per IEC61000-4-2(Contact)	V _{ESD}	>15 >8	kV
Surge Non Repetitive Forward Current-Rectangular waveform tp=2.5μs tp=1ms tp=100ms	I _{FSM}	6 2 1	A
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to + 150	°C



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ELECTRICAL CHARACTERISTICS (T_J=25°C)

PJUSB208-AU FIG.71						
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Peak Reverse Stand-Off Voltage	V _{RRM}		-	-	70	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} = 50μA	85	-	-	V
Reverse Leakage Current	I _R	V _{RWM} = 70V	-	0.1	1	μA
Off State Junction Capacitance	C _J	0Vdc, f=1MHz between I/O lines and GND	-	-	1	pF
Off State Junction Capacitance	C _J	0Vdc, f=1MHz between I/O lines	-	-	0.9	pF

PJUSB208R-AU FIG.100						
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Peak Reverse Stand-Off Voltage	V _{RRM}		-	-	70	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} = 50μA	85	-	-	V
Reverse Leakage Current	I _R	V _{RWM} = 70V	-	0.1	1	μA
Off State Junction Capacitance	C _J	0Vdc, f=1MHz between I/O lines and GND	-	-	1	pF
Off State Junction Capacitance	C _J	0Vdc, f=1MHz between I/O lines	-	-	0.9	pF

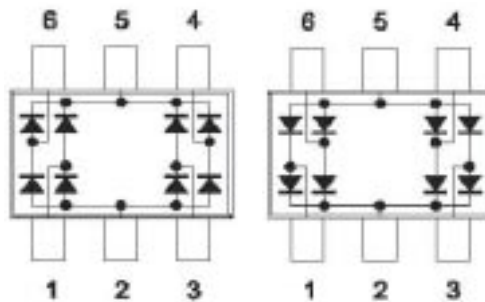
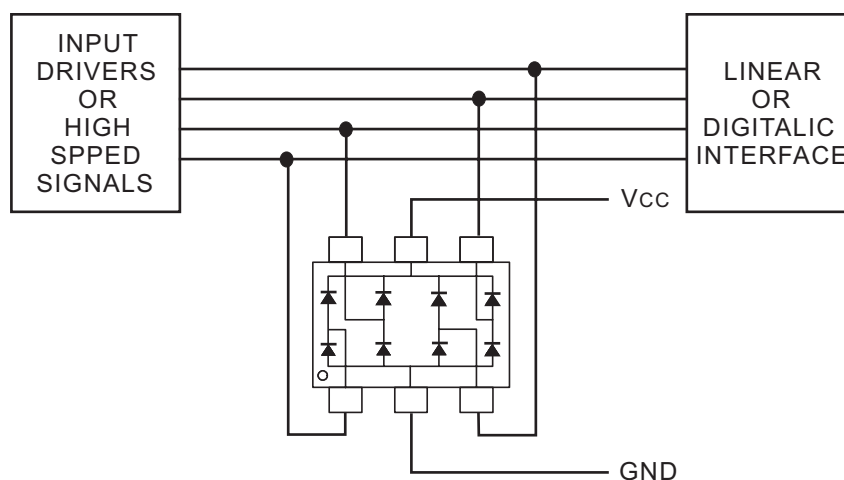


Fig.71

Fig.100





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TYPICAL CHARACTERISTICS CURVES

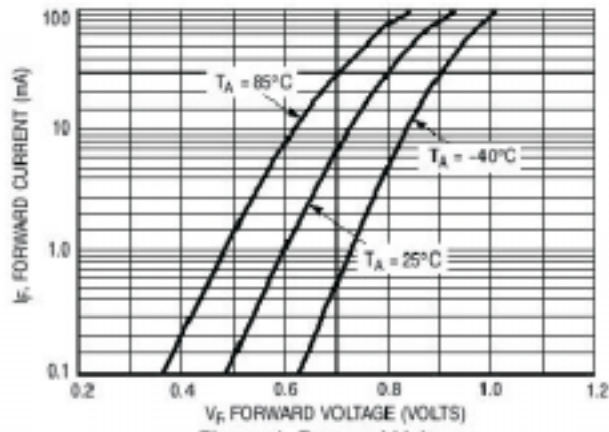


Figure 1. Forward Voltage

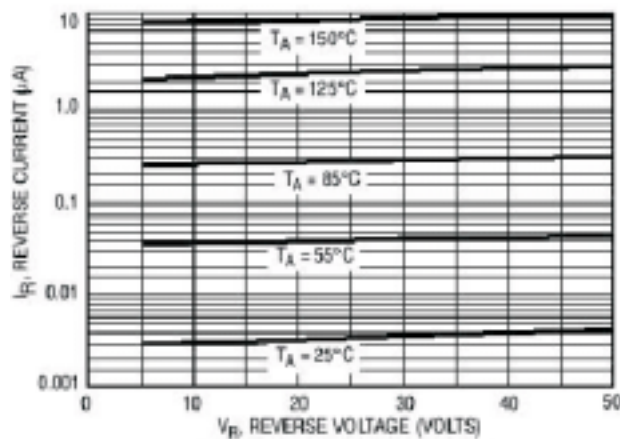


Figure 2. Leakage Current

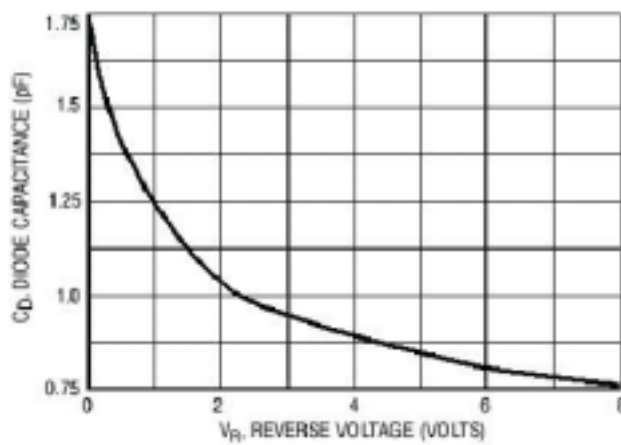
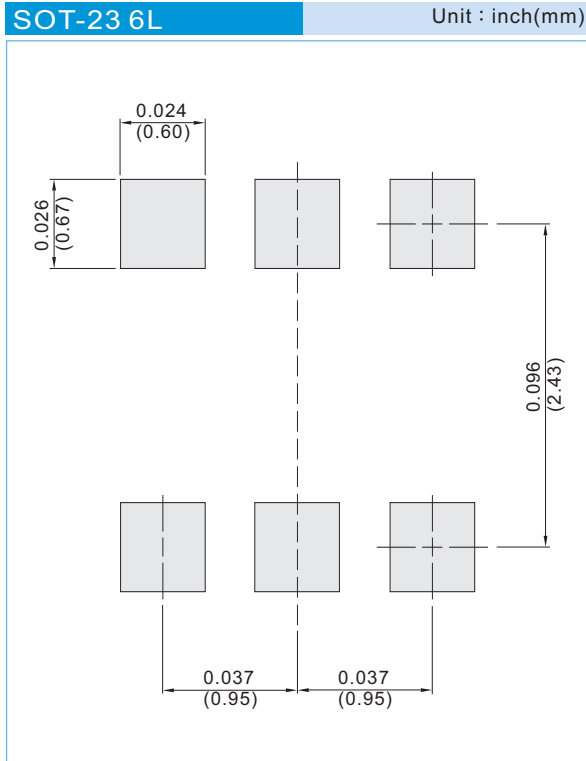


Figure 3. Capacitance



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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



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Part No_packing code_Version

PJUSB208-AU_R1_000A1

PJUSB208-AU_R2_000A1

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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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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