

PJUSB208 SERIES

LOW CAPACITANCE DIODE ARRAY

Voltage

70 V

Features

- Low leakage current, maximum of 0.1 μ A at rated voltage
- IEC61000-4-2 ESD 15kV Air, 8kV Contact compliance
- Flammability rating UL94V-0
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std..
(Halogen Free)

Mechanical Data

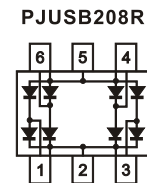
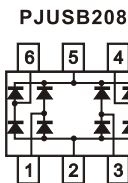
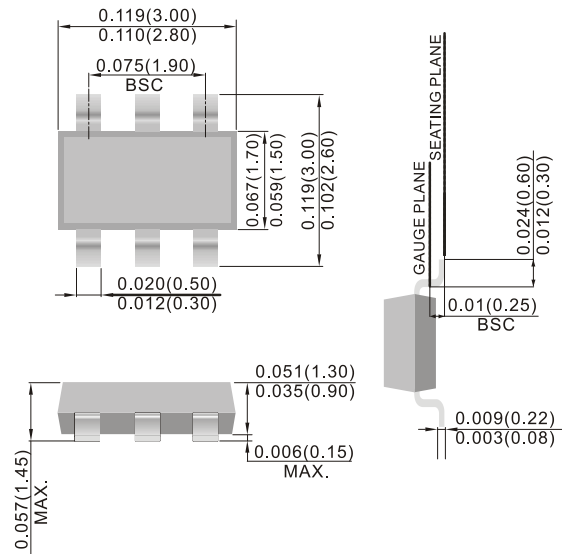
- Case: Molded plastic, SOT-23 6L
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0005 ounces, 0.014 grams

Applications

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

SOT-23 6L

Unit: inch(mm)



Maximum Ratings

PARAMETER	SYMBOL	VALUE	UNITS
Rectifier Repetitive Peak Reverse Voltage	V_{RRM}	70	V
ESD per IEC61000-4-2 (Air)	V_{ESD}	>15	kV
ESD per IEC61000-4-2 (Contact)		>8	
Surge Non Repetitive Forward Current-Rectangular waveform $t_p=2.5\mu s$ $t_p=1ms$ $t_p=100ms$	I_{FRM}	6 2 1	A
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to 150	$^{\circ}C$



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Electrical Characteristics

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Peak Reverse Stand-Off Voltage	V_{RRM}		-	-	70	V
Reverse Breakdown Voltage	V_{BR}	$I_{BR} = 50\mu A$	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

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TYPICAL CHARACTERISTIC CURVES

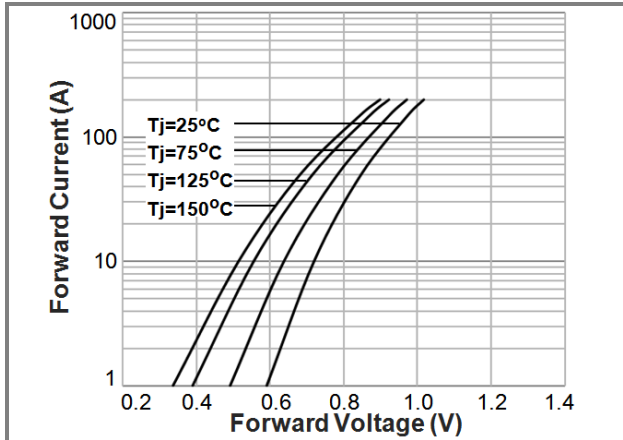


Fig.1 Forward Characteristics

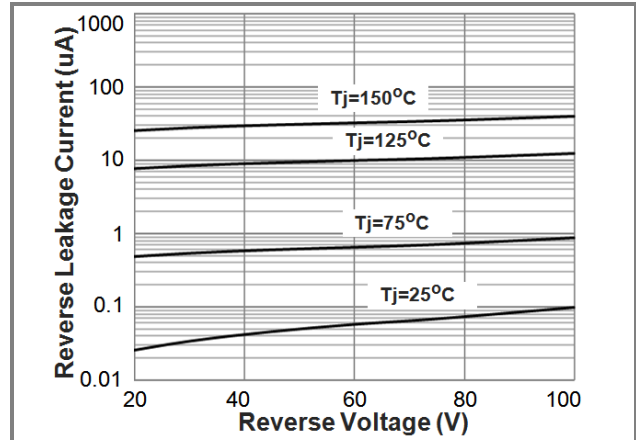


Fig.2 Reverse Characteristics

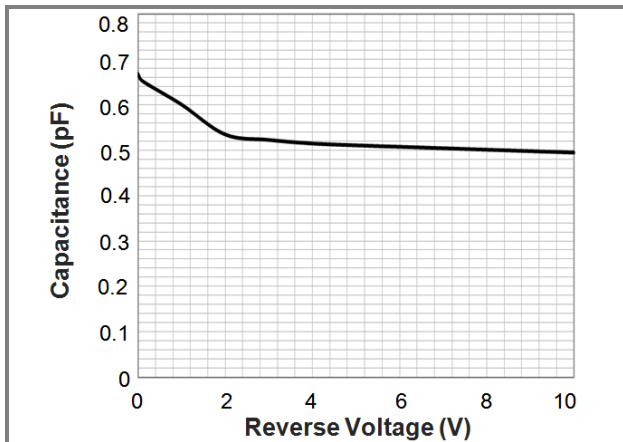


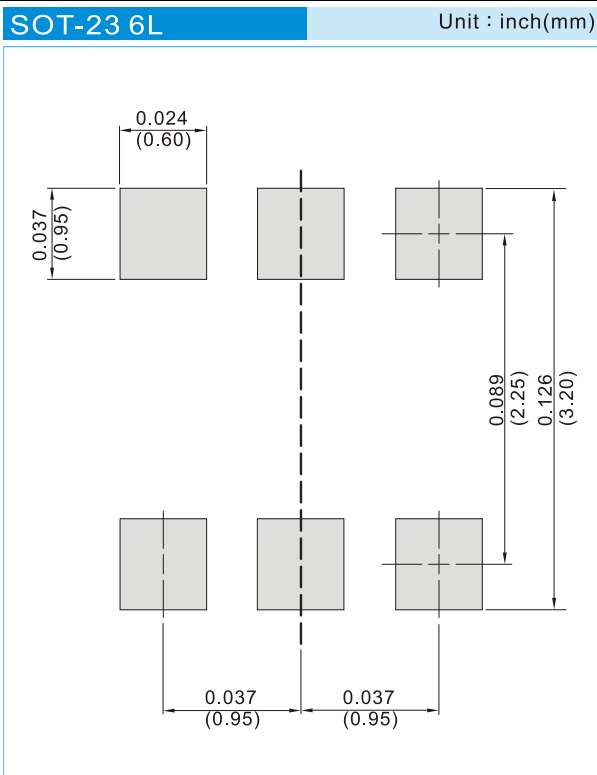
Fig.3 Capacitance vs. Reverse Voltage

PJUSB208 SERIES

Part No Packing Code Version

Part No Packing Code	Package Type	Packing type	Marking	Version
PJUSB208_R1_00001	SOT-23 6L	3K pcs / 7" reel	208	Halogen free
PJUSB208_R2_00001	SOT-23 6L	10K pcs / 13" reel	208	Halogen free
PJUSB208_S1_00001	SOT-23 6L	3K pcs / 7" reel	208	Halogen free
PJUSB208_S2_00001	SOT-23 6L	10K pcs / 13" reel	208	Halogen free
PJUSB208R_R1_00001	SOT-23 6L	3K pcs / 7" reel	316	Halogen free
PJUSB208R_R2_00001	SOT-23 6L	10K pcs / 13" reel	316	Halogen free
PJUSB208R_S1_00001	SOT-23 6L	3K pcs / 7" reel	316	Halogen free
PJUSB208R_S2_00001	SOT-23 6L	10K pcs / 13" reel	316	Halogen free

MOUNTING PAD LAYOUT





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