



PJUSB208 SERIES

LOW CAPACITANCE DIODE ARRAY

Voltage 70 V

Features

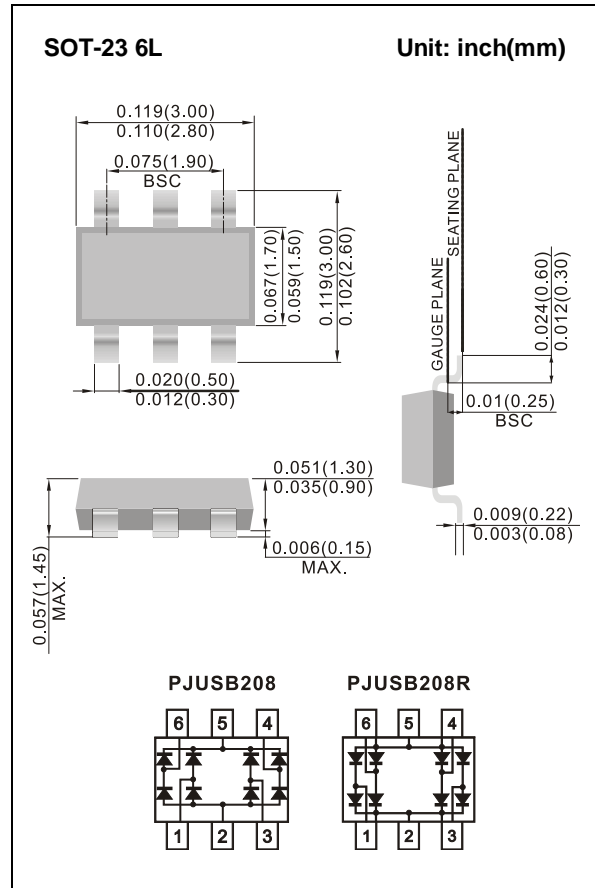
- Low leakage current, maximum of 0.1 μ A at rated voltage
- IEC61000-4-2 ESD 15kV Air, 8kV Contact compliance
- Flammability rating UL94V-0
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std..
(Halogen Free)

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



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	I_{FRM}	6	A
$t_p=2.5\mu s$		2	
$t_p=1ms$		1	
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

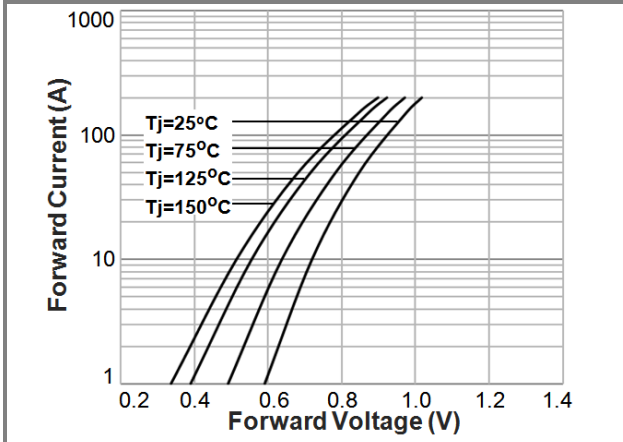


Fig.1 Forward Characteristics

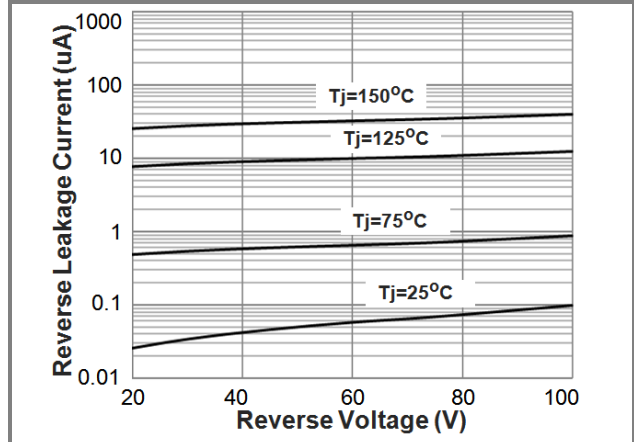


Fig.2 Reverse Characteristics

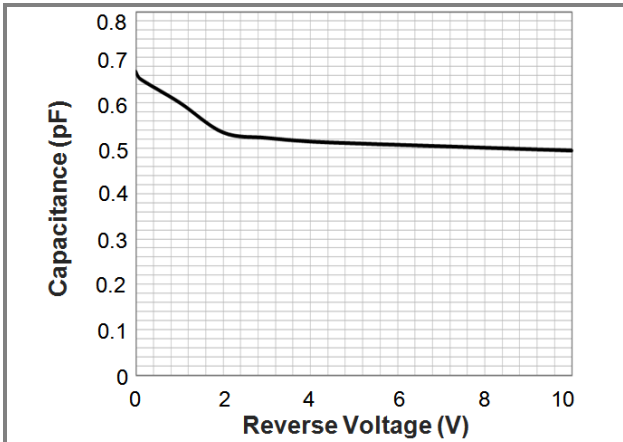


Fig.3 Capacitance vs. Reverse Voltage

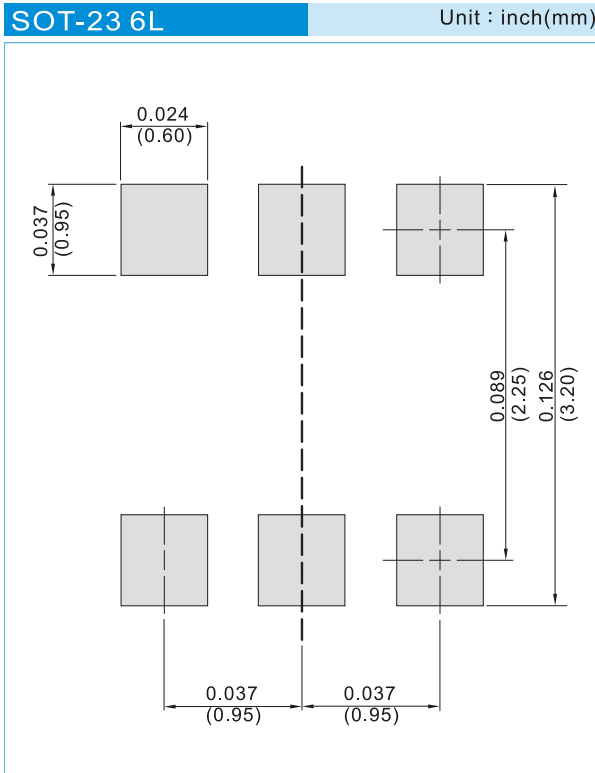


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Part No Packing Code Version

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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