

Schottky Barrier Rectifiers

Reverse Voltage - 100 Volts
Forward Current - 2.0 Amperes

Features

- Low profile package
- Ideal for automated placement.
- Guard Ring for over voltage protection
- Low forward voltage drop.
- Comply with AEC-Q101.

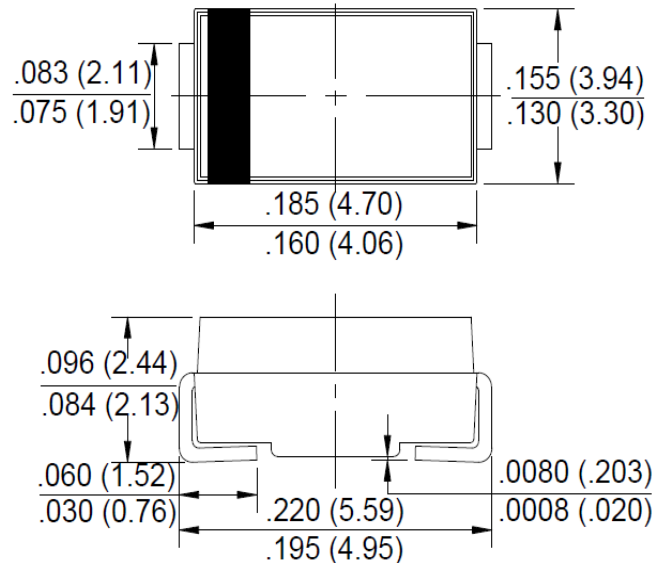
Mechanical Data

- Case: SMB, molded plastic.
- Epoxy: UL flammability classification rate 94V-0 .
- Terminals: Lead free plating (Tin finish).
per MIL-STD-202, method 208.
- Polarity: Indicated by cathode band.
- Weight: 0.092 grams(approx.).

Circuit diagram



SMB



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	SS210	Unit
	Marking	2100	
Repetitive peak reverse voltage	VRRM	100	V
RMS voltage	VRMS	70	V
DC blocking voltage	VDC	100	V
Average forward rectified current	IF	2	A
Peak forward surge current (8.3ms single half sine-wave superimposed on rated load) (JEDEC method)	IFSM	50	A
Instantaneous forward voltage, IF = 2A, TA=25°C	VF	0.85 MAX.	V
Reverse current VR = VRRM, TA=25°C	IR	0.2 MAX.	μA
VR = VRRM, TA=100°C		5.0 MAX.	
Junction capacitance, f=1MHZ and applied 4V DC reverse Voltage(Note 1)	CJ	70 TYP.	pF
Thermal Resistance Junction to case	RθJC	40 TYP.	°C/W
Operating temperature range	TJ	-55 to + 150	°C
Storage temperature range	TSTG	-55 to + 150	°C

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

Fig.1 - Typical Forward Current Derating Curve

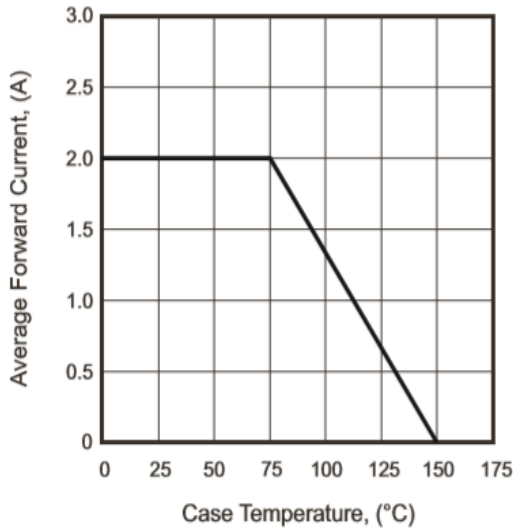


Fig.2 - Typical Forward Characteristics

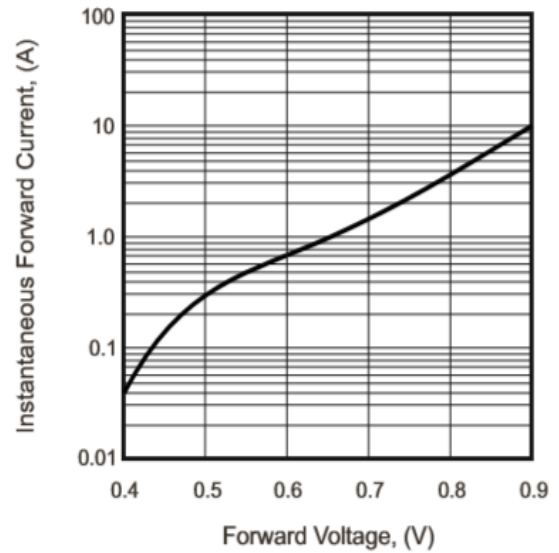


Fig.3 - Maximum Non-repetitive Forward Surge Current

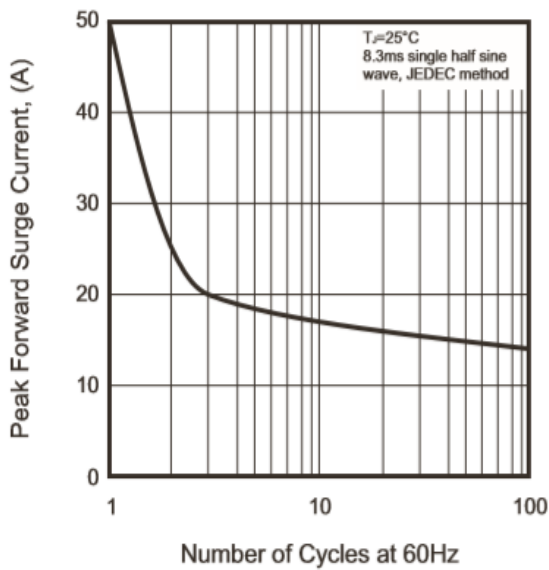


Fig.4 - Typical Reverse Characteristics

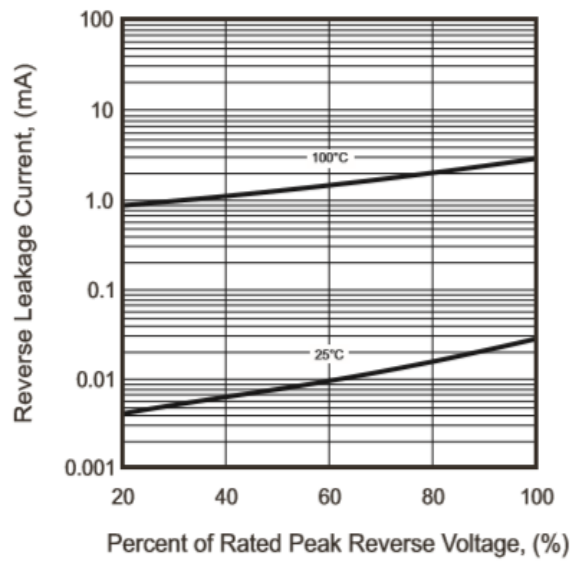
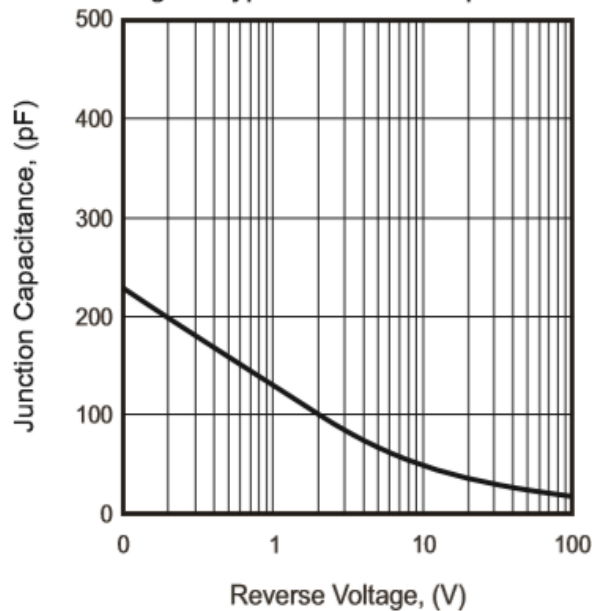


Fig.5 - Typical Junction Capacitance



The curve above is for reference only.

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