

SB2100A

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 100V

CURRENT: 2.0A



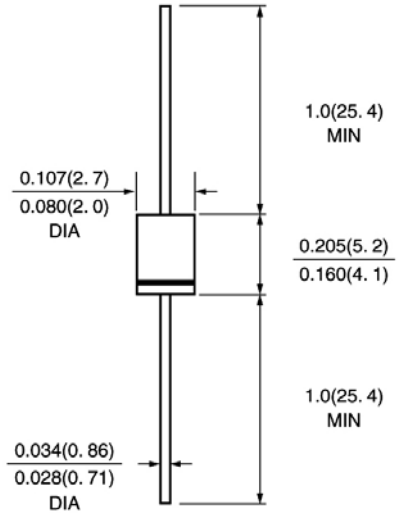
FEATURE

High current capability, Low forward voltage drop
Low power loss, high efficiency
High surge capability
High temperature soldering guaranteed
250°C /10sec/0.375" lead length at 5 lbs tension

MECHANICAL DATA

Terminal: Plated axial leads solderable per MIL-STD 750, method 2026
Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: color band denotes cathode
Mounting position: any

DO-41\DO-204AL



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	SB2100A	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	100	V
Maximum RMS Voltage	V _{rms}	70	V
Maximum DC blocking Voltage	V _{dc}	100	V
Maximum Average Forward Rectified Current 0.375" lead length TL=75°C	I _{f(av)}	2.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	60.0	A
Maximum Forward Voltage at 2.0A DC (Note 1)	V _f	0.79	V
Maximum DC Reverse Current at rated DC blocking voltage Ta =25°C Ta =100°C	I _r	0.5 20.0	mA
Typical Thermal Resistance (Note 2)	R _{th(ja)}	60.0	°C /W
Storage Temperature	T _{stg}	-55 to +150	°C
Operating Junction Temperature	T _j	+150	°C

Note:

1. Pulse test :300uS pulse width ,1% duty cycle.
2. Thermal Resistance from Junction to Ambient at 0.5" lead length, vertical P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES SB2100A

Fig. 1 – Forward Current Derating Curve

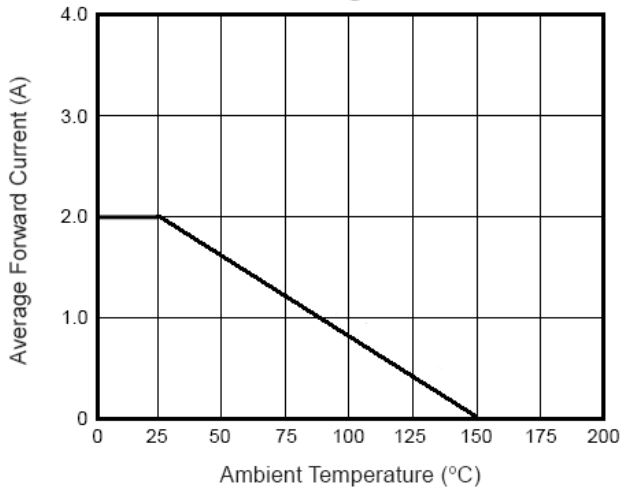


Fig. 2 - Typical Instantaneous Forward Characteristics

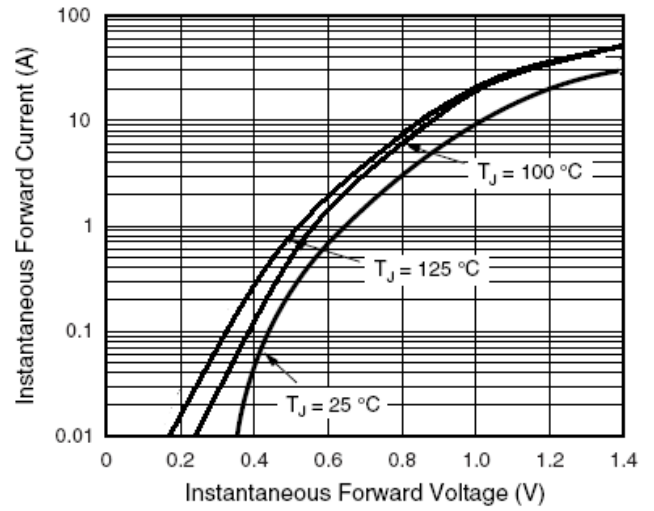


Fig. 3 - Typical Reverse Characteristics

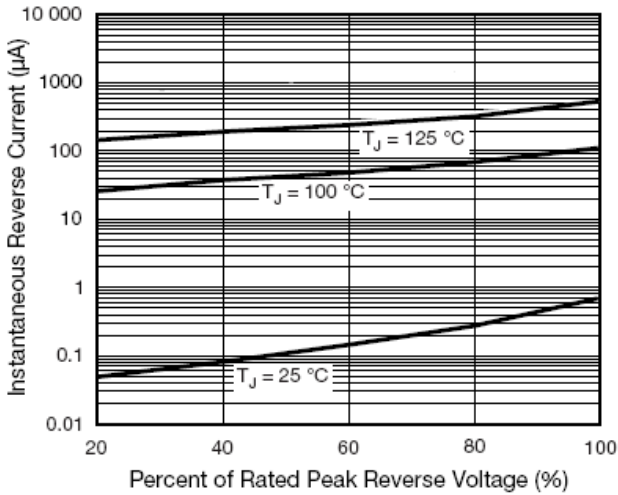


Fig. 4 – Typical Junction Capacitance

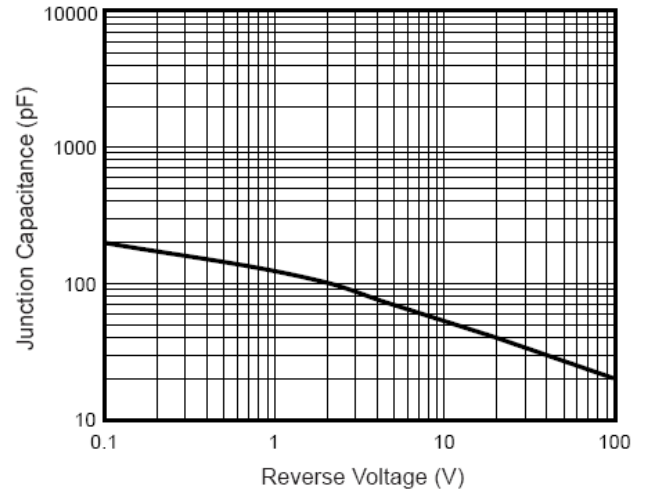


Fig. 5 - Typical Transient Thermal Impedance

