

Reverse Voltage: 200 Volts
Forward Current: 10.0 Amps



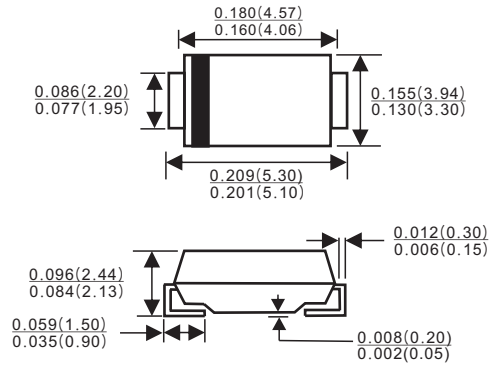
SMB/DO-214AA

FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Lead solderable per MIL-STD-202, method 208 guaranteed
- Polarity: As Marked
- Mounting position: Any
- Weight: 0.093grams(Approximately)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25 °C ambient temperature unless otherwise specified.
 Single phase half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

TYPE NUMBER	SS10200B	UNITS
Maximum Recurrent Peak Reverse Voltage	200	V
Working Peak Reverse Voltage	140	V
Maximum DC Blocking Voltage	200	V
Maximum Average Forward Rectified Current See Fig. 1	10	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	275	A
Maximum Instantaneous Forward Voltage (I _F = 0.4 Amps, T _F = 25°C)	0.60	V
Maximum Instantaneous Forward Voltage (I _F = 10 Amps, T _F = 25°C)	0.85	
Maximum Instantaneous Forward Voltage (I _F = 10 Amps, T _F = 125°C)	0.75	
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta=25°C 10	mA mA
Typical Junction Capacitance (Note1)	350	pF
Typical Thermal Resistance R0JA (Note 2)	2.0	C/W
Operating Temperature Range T _J	-50 ~ +175	°C
Storage Temperature Range T _{STG}	-65 ~ +175	C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Case.

Ratings and Characteristics Curve(TA=25°C unless otherwise noted)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

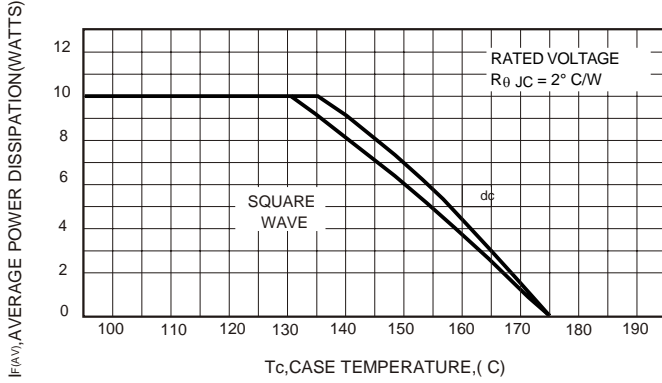


FIG.2- TYPICAL FORWARD VOLTAGE (PER LEG)

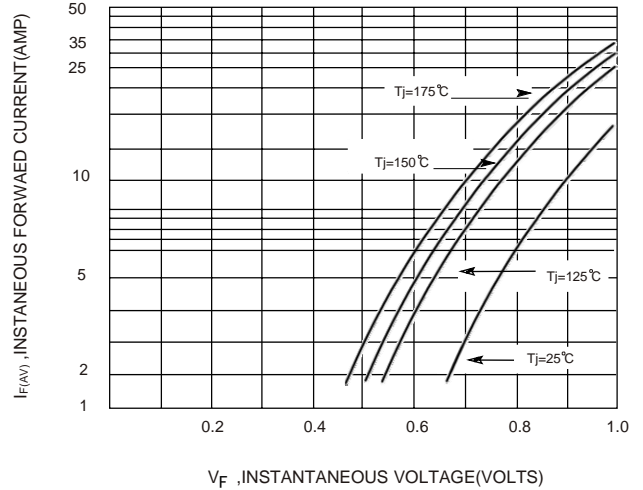


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

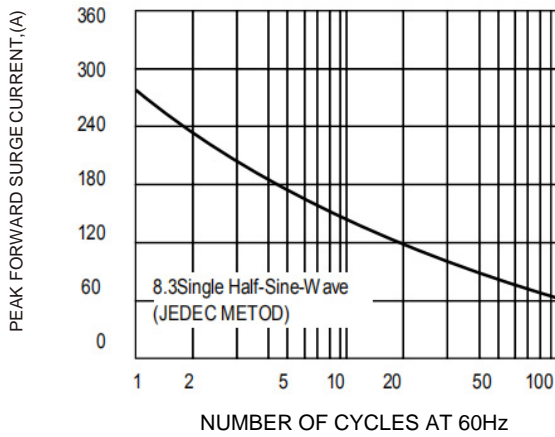


FIG.5-TYPICAL REVERSE CURRENT(PER LEG)

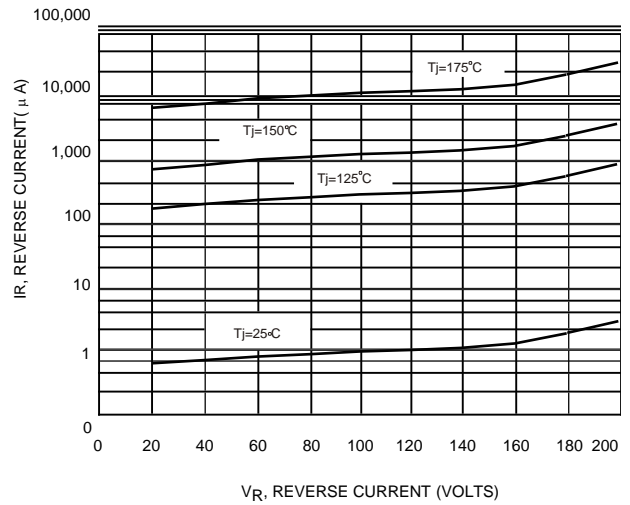
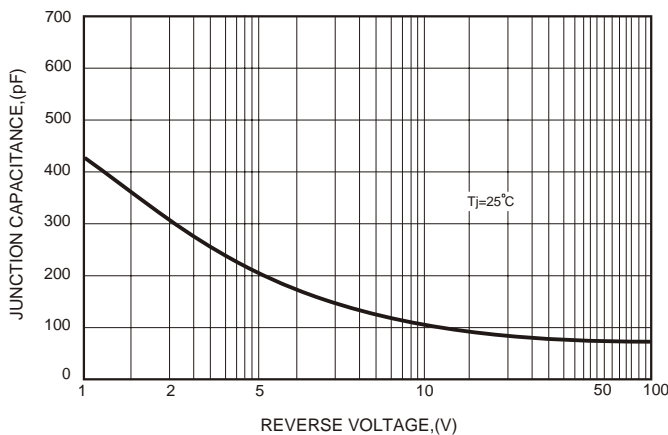


FIG.4-TYPICAL JUNCTION CAPACITANCE



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMB	3000/REEL	48000	36X35.8X36.5	12.00	11.00