

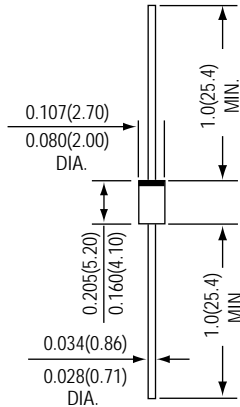


SB2120 THRU SB2200 SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 120 to 200 Volts

Forward Current - 2.0 Amperes

DO-204AL



*Dimensions in inches and (millimeters)



FEATURES

- * Compliance to RoHS product
- * Plastic package has Underwriters Laboratory Flammability Classifications 94V-0
- * Metal silicon junction, majority carrier conduction
- * Guardring for overvoltage protection
- * Low power loss, high efficiency
- * High current capability, low forward voltage drop
- * High surge capability
- * For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

Case : JEDEC DO-204AL Molded plastic body
Terminals : Tin Plated, solderable per MIL-STD-750, Method 2026
Polarity : Cathode Band
Weight : 0.318 gram (approximate)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.	SYMBOLS	SB2120	SB2150	SB2200	UNITS
Maximum repetitive peak reverse voltage	VRRM	120	150	200	Volts
Maximum RMS voltage	VRMS	84	105	140	Volts
Maximum DC blocking voltage	VDC	120	150	200	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length (SEE FIG.1)	I(AV)	2.0			Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50			Amps
Maximum instantaneous forward voltage at 2.0 A	VF	0.85	0.87	0.90	Volts
Maximum instantaneous reverse current at rated DC blocking voltage TA=25°C TA=100°C	IR	0.2 5.0			mA
Typical junction capacitance (NOTE)	Cj	100			pF
Typical thermal resistance	R JA R JC	70 30			°C / W
Operating junction and storage temperature range	TJ,TSTG	-55 to +150			°C

NOTES : Measured at 1.0MHz and applied reverse voltage of 4.0V DC

RATINGS AND CHARACTERISTIC CURVES SB2120 THRU SB2200

FIG.1 - FORWARD CURRENT DERATING CURVE

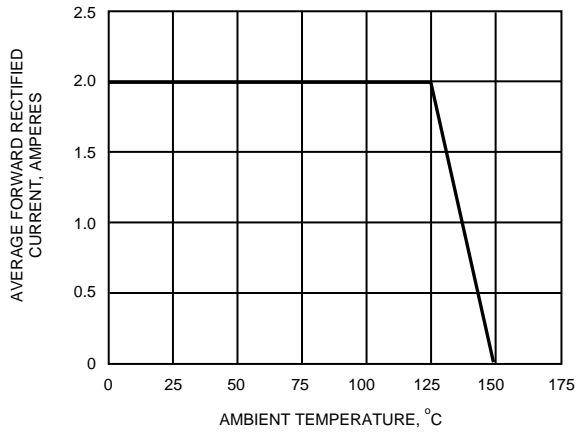


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

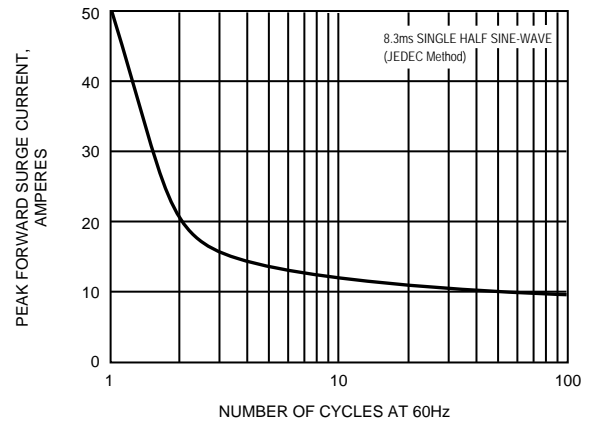


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

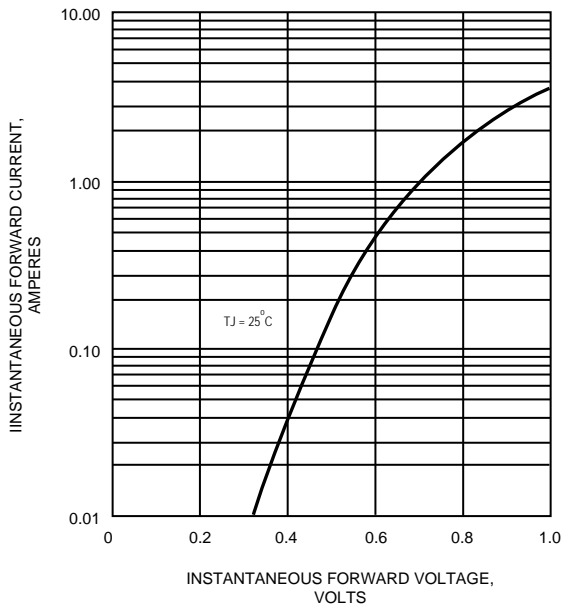


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

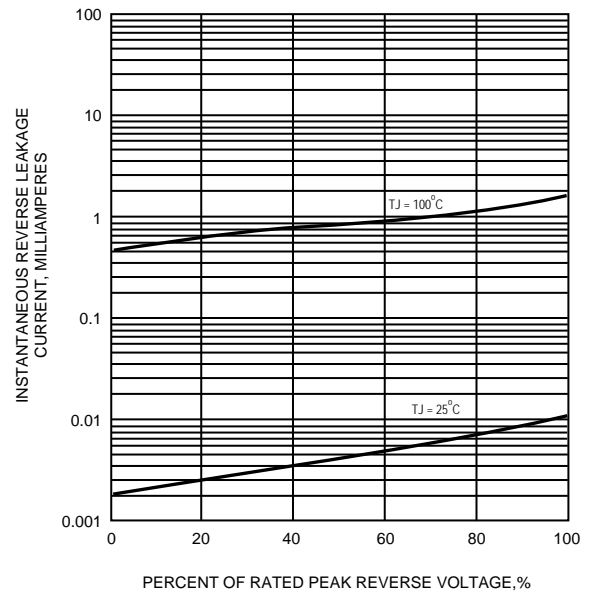


FIG.5 - TYPICAL JUNCTION CAPACITANCE

