



SB270 thru SB2B0

Schottky Barrier Rectifiers

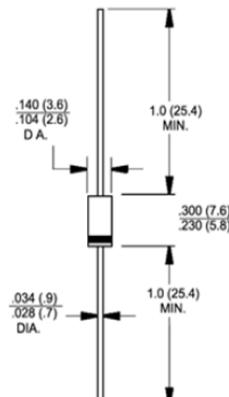
Reverse Voltage 70V to 100V Forward Current 1.0A Amperes

Features

- Metal-Semiconductor junction with guardring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications



DO-204AC (DO-15)



Dimensions in inches and (millimeters)

Mechanical Data

- Case: JEDEC DO-204AC(DO-15) molded plastic
- Polarity: Color band denotes cathode end
- Weight: 0.014 ounce, 0.39 gram
- Mounting position: Any

MAXIMUM RATINGS and ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

PARAMETER	SYMBOL	SB270	SB280	SB290	SB2B0	UNIT
Maximum repetitive peak reverse voltage	VRRM	70	80	90	100	V
Maximum RMS voltage	VRMS	49	56	63	70	V
Maximum DC blocking voltage	VDC	70	80	90	100	V
Maximum average forward rectified current @ T _L =100°C	IF(AV)			2.0		A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM			60		A
Maximum forward voltage at 2A DC T _A =25°C T _A =100°C	VF			0.79 0.69		V
Maximum DC reverse current at rated DC blocking voltage ⁽¹⁾	IR			0.05 1		mA
Typical junction capacitance (Note 1)	C _j			50		pF
Typical thermal resistance (Note 2)	R _{θJA}			85		°C/W
	R _{θJC}			45		
	R _{θJL}			40		
Operating junction temperature range	T _J			- 55 to + 150		°C
storage temperature range	T _{STG}			- 55 to + 150		°C

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

2. Thermal Resistance at .375(9.5mm) Lead Length, PC Board Mounted



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RATINGS AND CHARACTERISTICS CURVES

