



SB370 thru SB3B0

Schottky Barrier Rectifiers
Reverse Voltage 70 to 100 Volts Forward Current 3.0 Amperes

Features

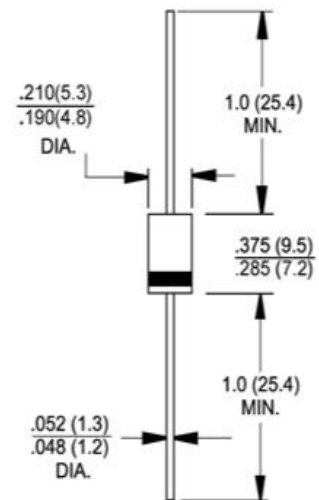
- ◆ Metal-Semiconductor junction with guard ring
- ◆ Epitaxial construction
- ◆ Low forward voltage drop
- ◆ High current capability
- ◆ The plastic material carries UL recognition 94V-0
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications



DO-201AD

Mechanical Data

- ◆ Case : JEDEC DO-201AD molded plastic
- ◆ Polarity : Color band denotes cathode
- ◆ Weight : 0.041 ounce, 1.15 grams
- ◆ Mounting position : Any



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

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

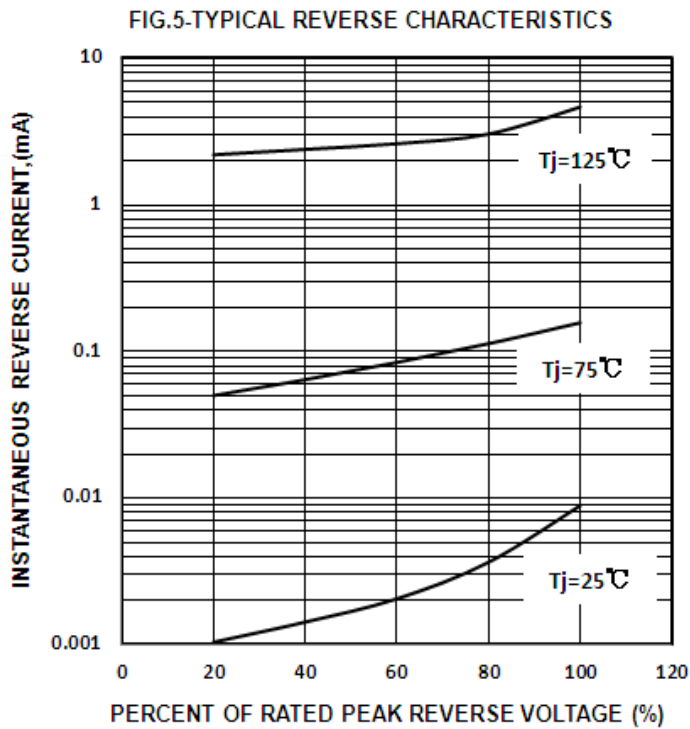
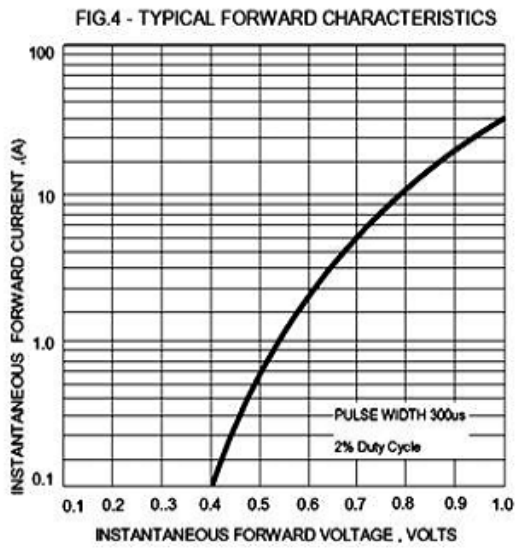
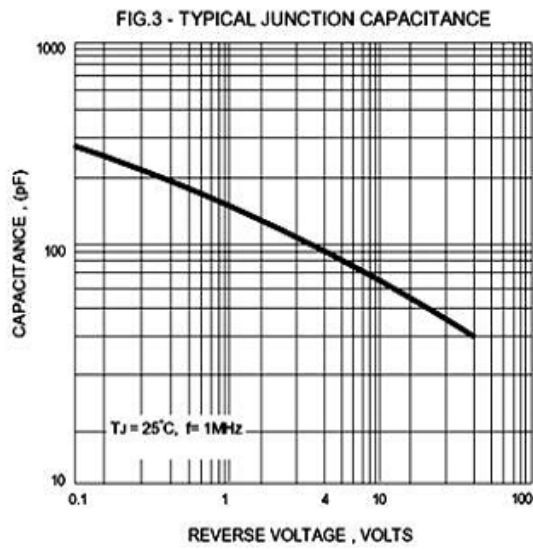
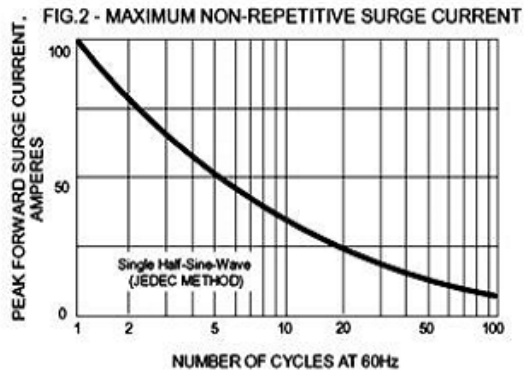
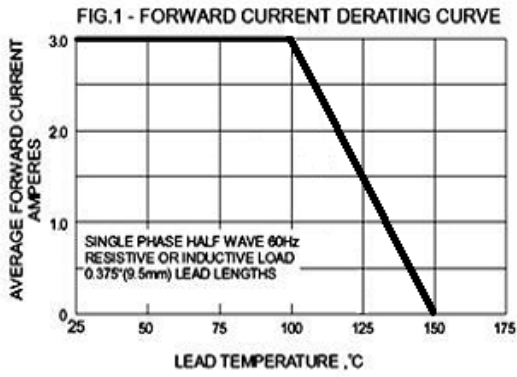
For capacitive load, derate current by 20%

PARAMETER	SYMBOL	SB370	SB380	SB390	SB3B0	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 at TL(see Fig.1)	IF(AV)	3				A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	100				A
Maximum forward voltage at 3.0A DC, Tj=25°C	VF	0.79				V
Maximum forward voltage at 3.0A DC, Tj=100°C	VF	0.69				V
Maximum DC reverse current at rated DC blocking voltage	Tj=25°C	0.10				mA
	Tj=125°C	5				
Typical thermal resistance junction to ambient(Note 1)	R _{θJA}	40				°C/W
Typical thermal resistance junction to lead(Note 1)	R _{θJL}	18				°C/W
Typical thermal resistance junction to case(Note 1)	R _{θJC}	23				°C/W
Typical junction capacitance. Measured at 1.0MHz and applied reverse voltage of 4.0V DC	Cj	90				pF
Operating junction temperature range	TJ	- 55 to + 150				°C
Storage temperature range	TSTG	- 55 to + 150				°C

Note: 1. Thermal Resistance at .375"(9.5mm)Lead Length, PC Board Mounted.

RATINGS AND CHARACTERISTIC CURVES

($T_A = 25^\circ\text{C}$ unless otherwise noted)



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