

SB570 thru SB5B0

Schottky barrier Rectifier Reverse Voltage 70-100V Forward Current 5.0A

Features

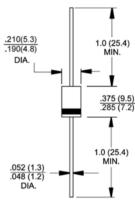
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low power loss, high efficiency
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Guardring for overvoltage protection



DO-201AD

Mechanical Data

- ◆ Case: JEDEC DO-201AD molded plastic body
- ◆ Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026 High temperature soldering guaranteed: 250°C/10 seconds 0.375" (9.5mm) lead length, 5lbs (2.3kg) tension
- ◆ Polarity: Color band denotes cathode end
- Mounting Position: Any
- ♦ Weight: 0.041 ounce, 1.15 grams



Dimensions in inches and (millimeters)

Absolute Maximum Ratings T_A=25°C unless otherwise noted)

Parameter	Symbol	SB570	SB580	SB590	SB5B0	Unit
Maximum repetitive peak reverse voltage	VRRM	70	80	90	100	Volts
Maximum RMS voltage	VRMS	49	56	63	70	Volts
Maximum DC blocking voltage	VDC	70	80	90	100	Volts
Maximum average forward rectified current .375"(9.5mm) lead lengths(See Fig.1)	IF _(AV)	5.0				Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rates load	IFSM	150.0				Amps
Maximum instantaneous forward voltage at 5.0A DC	VF	0.79				Volts
Maximum DC reverse current at rated DC blocking voltage TA=25°C,TA=100°C	IR	0.5 50				mA
Typical thermal resistance	R _{eja} R _{eji}	25 8				°C/W
Operating junction temperature range	тј	-55 to +150				°C
storage temperature range	TSTG	-55 to +150				°C



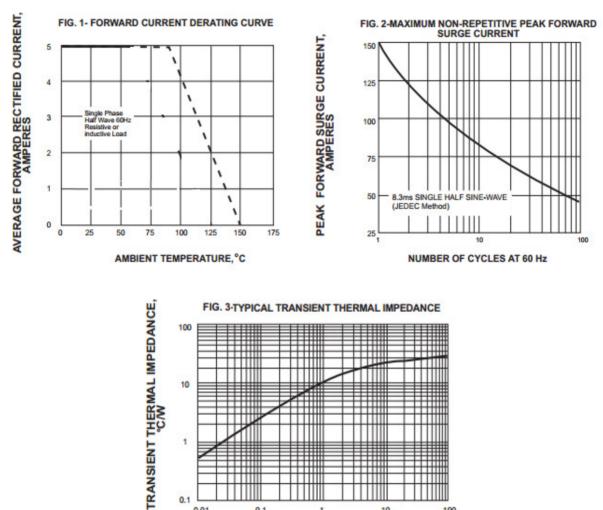
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Typical Electrical Characteristic Curves

0.1 0.01

(TA = 25° C unless otherwise noted)



t.PULSE DURATION.sec.

1

10

100

0.1