

SB570 thru SB5B0

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

Features

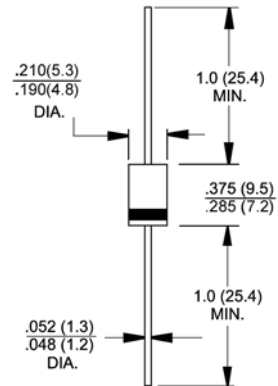
- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Low power loss, high efficiency
- ◆ For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- ◆ Guardring for overvoltage protection



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

Parameter	Symbol	SB570	SB580	SB590	SB5B0	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	70	80	90	100	Volts
Maximum RMS voltage	V_{RMS}	49	56	63	70	Volts
Maximum DC blocking voltage	V_{DC}	70	80	90	100	Volts
Maximum average forward rectified current .375"(9.5mm) lead lengths(See Fig. 1)	$I_{F(AV)}$	5.0				Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rates load	I_{FSM}	150.0				Amps
Maximum instantaneous forward voltage at 5.0A DC	V_F	0.79				Volts
Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ\text{C}$, $T_A=100^\circ\text{C}$	I_R	0.5 50				mA
Typical thermal resistance	$R_{\theta JA}$ $R_{\theta J}$	25 8				$^\circ\text{C/W}$
Operating junction temperature range	T_J	-55 to +150				$^\circ\text{C}$
storage temperature range	T_{STG}	-55 to +150				$^\circ\text{C}$

Typical Electrical Characteristic Curves

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

