

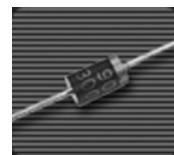


SB320 thru SB360

Schottky Barrier Rectifiers
Reverse Voltage 20 to 60 Volts Forward Current 3.0 Amperes

Features

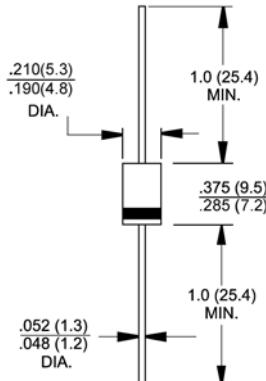
- ◆ Metal-Semiconductor junction with guard ring
- ◆ Epitaxial construction
- ◆ Low forward voltage drop
- ◆ High current capability
- ◆ The plastic material carries UL recognition 94V-0
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications



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	Symbols	SB320	SB330	SB340	SB350	SB360	Units
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	Volts
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	Volts
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	Volts
Maximum average forward rectified current .375" (9.5mm) lead lengths (See Fig.1)	I_{AV}				3.0		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}				100.0		Amps
Maximum forward voltage at 3.0A DC	V_F		0.50			0.74	Volts
Maximum DC reverse current @ $T_J=25^\circ\text{C}$ at rated DC blocking voltage @ $T_J=100^\circ\text{C}$	I_R			0.5 20.0			mA
Typical thermal resistance (Note 1)	R_{TJL}		20		10		°C/W
Typical junction capacitance (Note 2)	C_J			250			pF
Operating junction temperature range	T_J			-55 to +125			°C
Storage temperature range	T_{STG}			-55 to +150			°C

Notes: 1. Thermal Resistance Junction to Lead.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

RATINGS AND CHARACTERISTIC CURVES

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

