

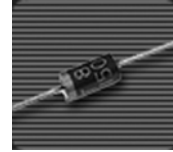


# SB220 thru SB260

Schottky Barrier Rectifiers  
Reverse Voltage 20 to 60 Volts    Forward Current 2.0 Amperes

## Features

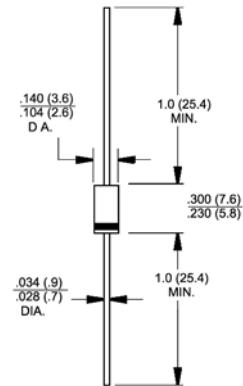
- ◆ Metal-Semiconductor junction with guard ring
- ◆ Epitaxial construction
- ◆ Low forward voltage drop
- ◆ High current capability
- ◆ The plastic material carries UL recognition 94V-0
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications



**DO-204AC (DO-15)**

## Mechanical Data

- ◆ Case : JEDEC DO-204AC(DO-15) molded plastic
- ◆ Polarity : Color band denotes cathode
- ◆ Weight : 0.014 ounce, 0.39 gram
- ◆ 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	SB220	SB230	SB240	SB250	SB260	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 @ $T_A=75^\circ\text{C}$	$I_{(AV)}$	2.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	60.0					Amps
Maximum forward Voltage at 2.0A DC Maximum forward Voltage at 1.5A DC	$V_F$	0.55 -			0.70 0.65		Volts
Maximum DC reverse current @ $T_F=25^\circ\text{C}$ at rated DC blocking voltage @ $T_J=100^\circ\text{C}$	$I_R$	0.5 15.0					mA
Typical thermal resistance (Note 1)	$R_{\theta JA}$	20					$^\circ\text{C/W}$
Typical junction capacitance (Note 2)	$C_J$	150					pF
Operating junction temperature range	$T_J$	-55 to +125					$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-55 to +150					$^\circ\text{C}$

- Notes:**
1. Thermal Resistance Junction to Ambient.
  2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

# RATINGS AND CHARACTERISTIC CURVES

