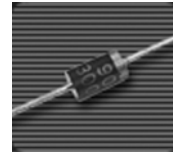
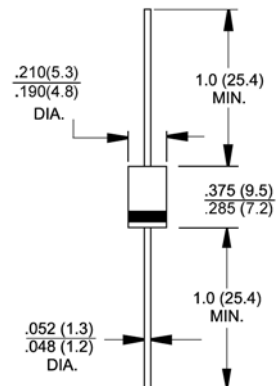


## Features

- ◆ 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

## Absolute Maximum Ratings $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbols	SB370	SB380	SB390	SB3B0	Units
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 @ $T_J=100^\circ\text{C}$	$I_{AV}$	3.0				Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{SM}$	100.0				Amps
Maximum forward voltage at $I_F=3.0\text{A}, T_J=25^\circ\text{C}$ $I_F=3.0\text{A}, T_J=100^\circ\text{C}$	$V_F$	0.79 0.69				Volts
Maximum DC reverse current at rated DC blocking voltage @ $T_J=25^\circ\text{C}$ @ $T_J=100^\circ\text{C}$	$I_R$	0.5 20.0				mA
Typical junction capacitance (Note 1)	$C_J$	90				pF
Typical thermal resistance (Note 2)	$R_{\theta JL}$	25				$^\circ\text{C}/\text{W}$
Operating junction temperature range	$T_J$	-55 to +150				$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-55 to +150				$^\circ\text{C}$

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

## RATINGS AND CHARACTERISTIC CURVES

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

