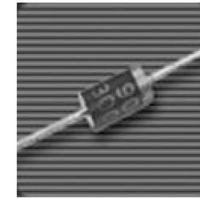


## Features

2018

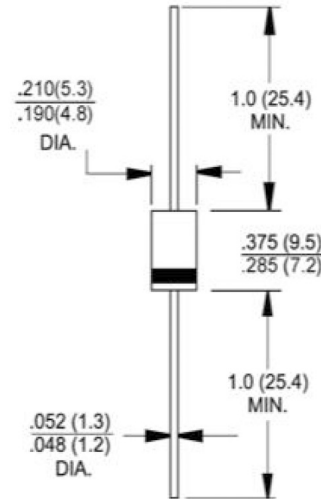
- ◆ Metal-Semiconductor junction with guard ring
- ◆ Epitaxial construction
- ◆ Low forward voltage drop
- ◆ High current capability
- ◆ The plastic material carries UL recognition 94V-0
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications



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



## Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60Hz, resistive or inductive load.

PARAMETER	SYMBOL	SB320	SB330	SB340	SB350	SB360	UNIT
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	V
Maximum RMS voltage	VRMS	14	21	28	35	42	V
Maximum DC blocking voltage	VDC	20	30	40	50	60	V
Maximum average forward rectified current at TL(see Fig.1)	IF(AV)	3					A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	100					A
Maximum forward voltage at 3.0A DC	VF	0.50			0.70		V
Maximum DC reverse current at rated DC blocking voltage	T <sub>j</sub> =25°C	0.15					mA
	T <sub>j</sub> =125°C	15					
Typical thermal resistance junction to ambient(Note1)	R <sub>θJA</sub>	40					°C/W
Typical thermal resistance junction to lead(Note1)	R <sub>θJL</sub>	18					°C/W
Typical thermal resistance junction to case(Note1)	R <sub>θJC</sub>	23					°C/W
Typical junction capacitance.Measured at 1.0MHz and applied reverse voltage of 4.0V DC	C <sub>j</sub>	250					pF
Operating junction temperature range	T <sub>J</sub>	- 55 to + 125			- 55 to + 150		°C
Storage temperature range	TSTG	- 55 to + 150					°C

Note: 1. Thermal Resistance at .375"(9.5mm)Lead Length, PC Board Mounted.

# RATINGS AND CHARACTERISTIC CURVES

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

