

### Maximum Ratings (@TA = +25°C, unless otherwise specified.)

Single phase, half wave, 60Hz, resistive or inductive load.

Characteristic	Symbol	SB320	SB330	SB340	SB350	SB360	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage (Note 6)	Vrrm Vrwm Vr	20	30	40	50	60	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	V
Average Rectified Output Current (Note 5) (See Figure 1)		3.0				Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	IFSM	80		A			

### **Thermal Characteristics**

Characteristic	Symbol	SB320	SB330	SB340	SB350	SB360	Unit
Typical Thermal Resistance (Note 7)	RθJA	30			°C/W		
	Rejl	10					°C/W
Operating Temperature Range	TJ	-65 to +125 -65 to +150		+150	°C		
Storage Temperature Range	T <sub>STG</sub>	-65 to +150			°C		

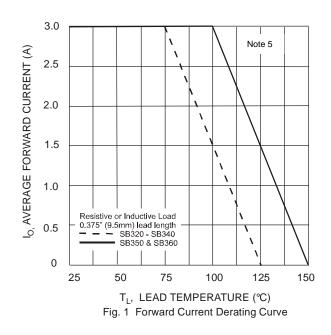
# Electrical Characteristics (@T<sub>A</sub> = +25°C, unless otherwise specified.)

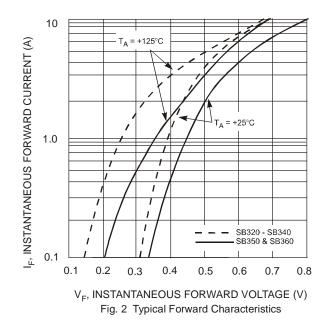
Characteristic		Symbol	SB320	SB330	SB340	SB350	SB360	Unit
Forward Voltage	@ IF = 3.0A	Vfm		0.50		0.	74	V
Peak Reverse Current	@ T <sub>A</sub> = +25°C		0.5					
at Rated DC Blocking Voltage (Note 6)	@ T <sub>A</sub> = +100°C	IRM		20		1	0	mA

Notes: 5. Measured at ambient temperature at a distance of 9.5mm from the case.

6. Short duration pulse test used to minimize self-heating effect.

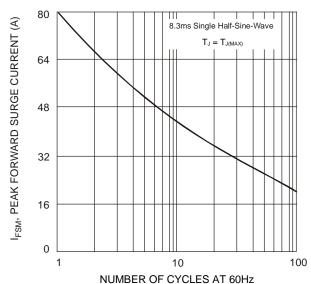
7. Thermal resistance from junction to lead vertical P.C.B. mounted, 0.500" (12.7mm) lead length with 2.5" × 2.5" (63.5mm × 63.5mm) copper pad.



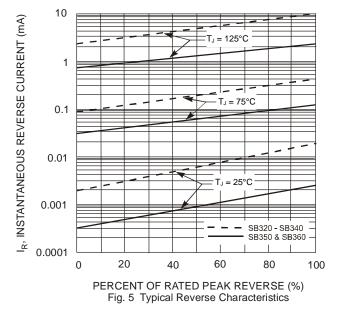


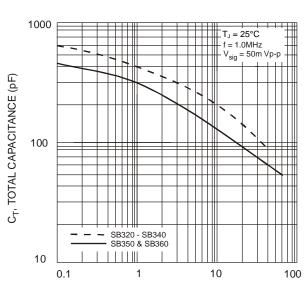


# SB320 - SB360





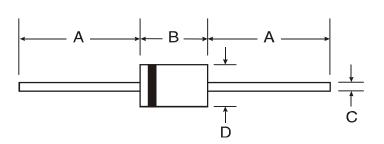




V<sub>R</sub>, REVERSE VOLTAGE (V) Fig. 4 Typical Total Capacitance

## **Package Outline Dimensions**

Please see http://www.diodes.com/package-outlines.html for the latest version.



DO-201AD						
Dim	Min	Max				
A	25.40	-				
В	7.20	9.50				
С	1.20	1.30				
D	4.80	5.30				
All Dimensions in mm						

DO-201AD



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