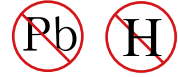




YEA SHIN TECHNOLOGY CO., LTD

SB320 THRU SB3200

SCHOTTKY BARRIER RECTIFIERS



VOLTAGE 20 to 200 Volts CURRENT - 3.0 Ampere

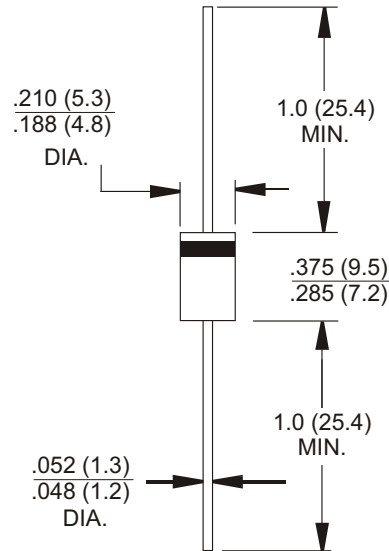
**FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame Retardant Epoxy Molding Compound.
- 3 ampere operation at TA=75°C with no thermal runaway.
- Exceeds environmental standards of MIL-S-19500/228
- For use in low voltage,high frequency inverters ,free wheeling , and polarity protection applications .
- High temperature soldering : 260°C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request

**MECHANICAL DATA**

- Case: DO-201AD Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-202,Method 208
- Polarity: Color band denotes cathode
- Mounting Position: Any

DO-201AD Unit:inch(mm)



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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

	SB320	SB330	SB340	SB350	SB360	SB380	SB3100	SB3150	SB3200	UNIT
Peak Reverse Voltage, Repetitive ; VRM	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	14	21	28	35	42	56	70	105	140	V
DC Reverse Voltage; VR	20	30	40	50	60	80	100	150	200	V
Maximum Forward Voltage at 3.0A	0.50		0.70		0.85		0.95			V
Maximum Average Forward Rectified Current .375" Lead Length at TA=75°C	3.0									A
Peak Forward Surge Current, IFM (surge):8. 3ms single half sine-wave superimposed on rated load(JEDEC method)	80									A
Maximum DC Reverse Current at TA=25°C	0.5									mA
At Rated DC Blocking Voltage TA=100°C	30.0									mA
Typical Thermal Resistance RθJA(Note 1)	40									°C / W
Typical Junction capacitance (Note 2)	180									pF
Operating Temperature Range TJ	-55 to +150									°C

NOTES:

- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- Thermal Resistance from Junction to Ambient .

# DEVICE CHARACTERISTICS

## SB320 THRU SB3200

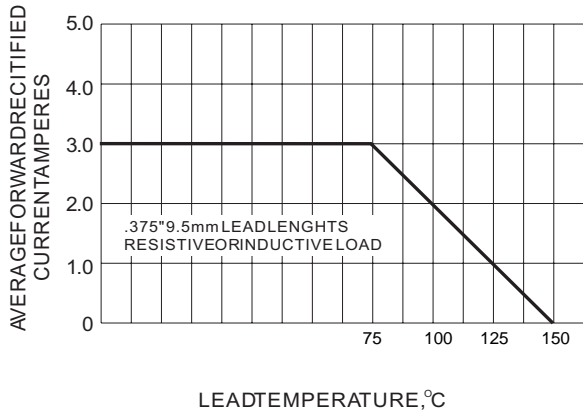


Fig. 1-FORWARD CURRENT DERATING CURVE

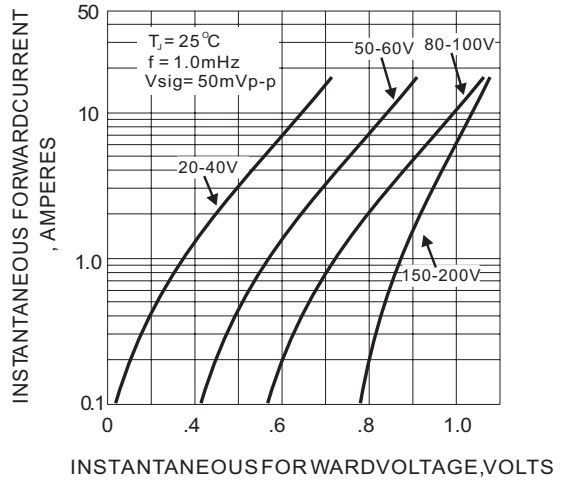


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

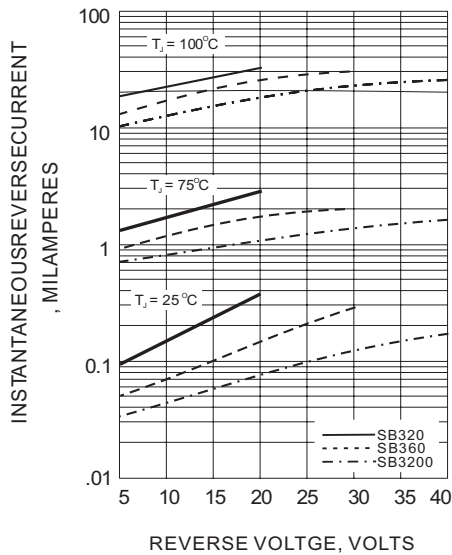


Fig. 3-TYPICAL REVERSE CHARACTERISTIC

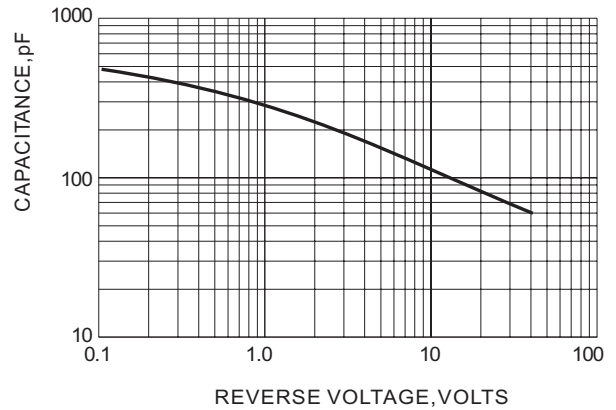


Fig. 4-TYPICAL JUNCTION CAPACITANCE

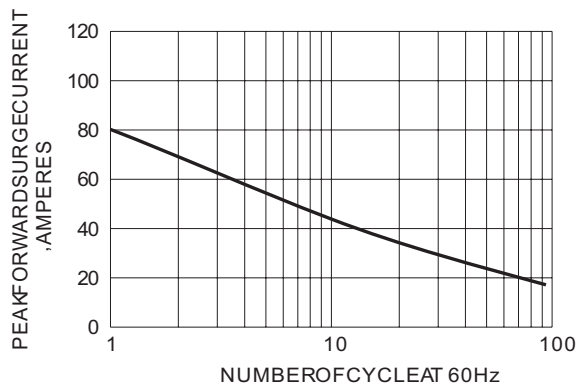


Fig. 5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT