

# SB320 - SB3B0

PRV : 20 - 100 Volts

I<sub>o</sub> : 3.0 Amperes

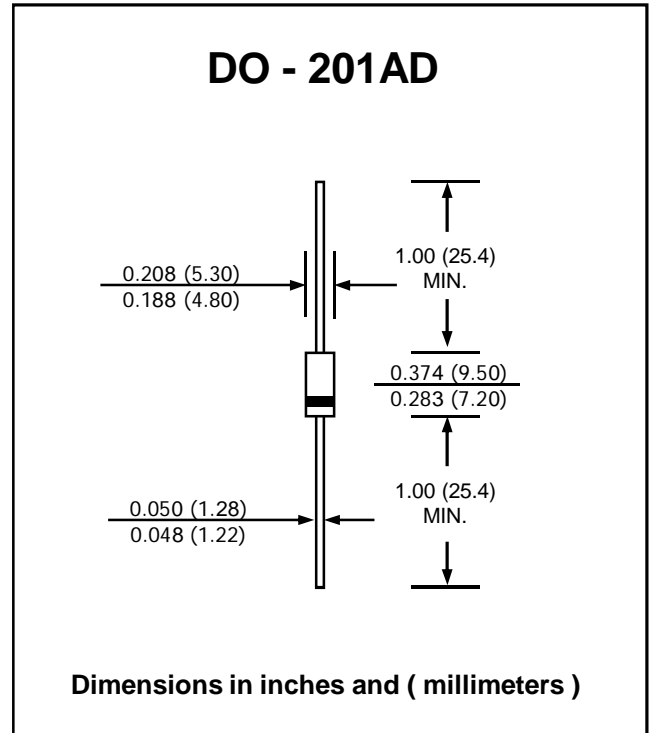
### FEATURES :

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* High efficiency
- \* Low power loss
- \* Low forward voltage drop
- \* Pb / RoHS Free

### MECHANICAL DATA :

- \* Case : DO-201AD Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 1.1 grams

## SCHOTTKY BARRIER RECTIFIER DIODES



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

RATING	SYMBOL	SB 320	SB 330	SB 340	SB 350	SB 360	SB 370	SB 380	SB 390	SB 3B0	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	70	80	90	100	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	49	56	63	70	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	70	80	90	100	V
Maximum Average Forward Current 0.375", 9.5mm Lead Length See Fig.1	I <sub>F(AV)</sub>	3.0									A
Maximum Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	80									A
Maximum Forward Voltage at I <sub>F</sub> = 3.0 A	V <sub>F</sub>	0.5			0.74			0.79			V
Maximum Reverse Current at Ta = 25 °C	I <sub>R</sub>	0.5									mA
Rated DC Blocking Voltage (Note 1) Ta = 100 °C	I <sub>R(H)</sub>	20									mA
Junction Temperature Range	T <sub>J</sub>	- 65 to + 125				- 65 to + 150					°C
Storage Temperature Range	T <sub>STG</sub>	- 65 to + 150									°C

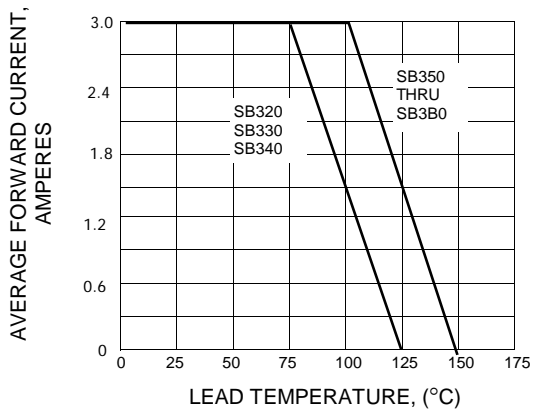
### Notes :

(1) Pulse Test : Pulse Width = 300 μs, Duty Cycle = 2%

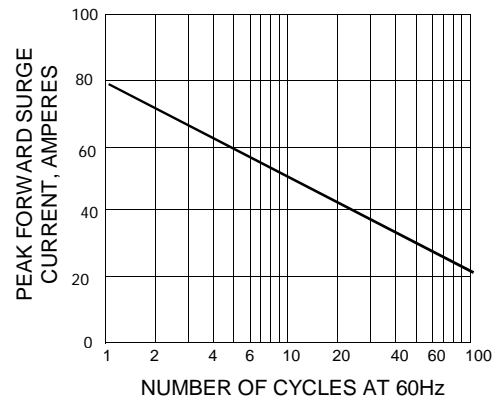


**RATING AND CHARACTERISTIC CURVES ( SB320 - SB3B0 )**

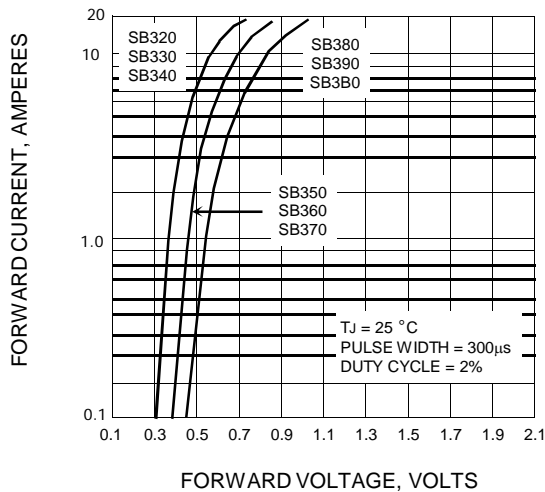
**FIG.1 - FORWARD CURRENT DERATING CURVE**



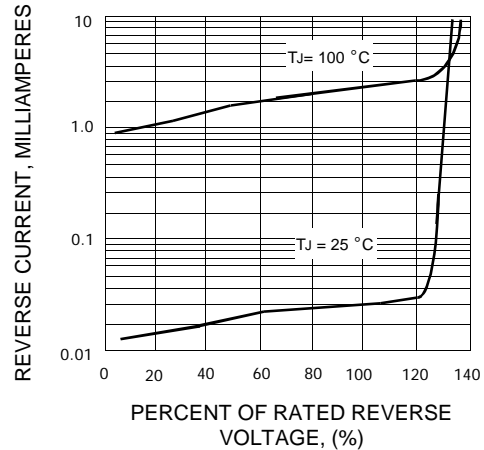
**FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**



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