

# SB1220~SB12100

## SCHOTTKY BARRIER RECTIFIERS

**VOLTAGE** 20 to 100 Volt **CURRENT** 12 Amper

DO-201AD

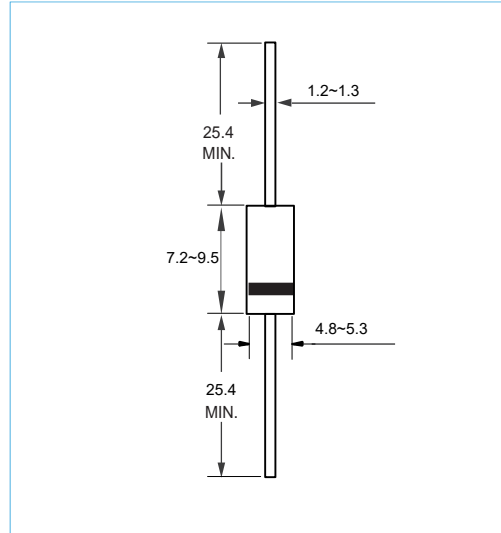
Unit:mm

### FEATURES

- Low Forward Voltage Drop
- High Current Capability and High Surge Current Capability
- Lead free in compliance with EU RoHS

### MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	SB1220	SB1230	SB1240	SB1250	SB1260	SB1280	SB12100	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	100	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	100	V
Maximum Average Forward Current (See Figure 1)	$I_{F(AV)}$	12							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	250							A
Maximum Forward Voltage at 12A per leg	$V_F$	0.55			0.70		0.85		V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^{\circ}C$ $T_J=100^{\circ}C$	$I_R$	0.5				50			mA
Typical Thermal Resistance	$R_{\theta JA}$	15							$^{\circ}C / W$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150							$^{\circ}C$

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## RATING AND CHARACTERISTIC CURVES

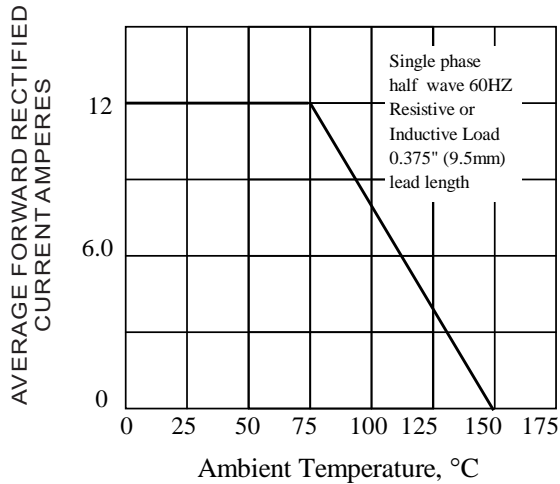


Fig.1-FORWARD CURRENT DERATING CURVE

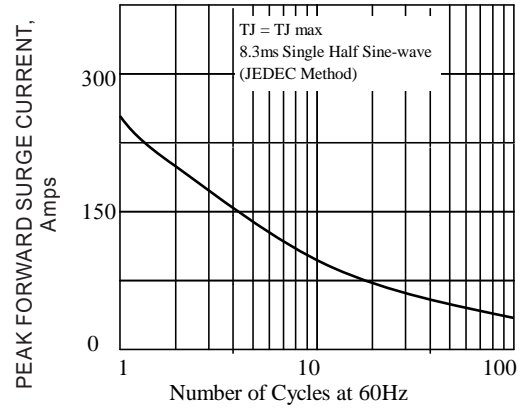


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

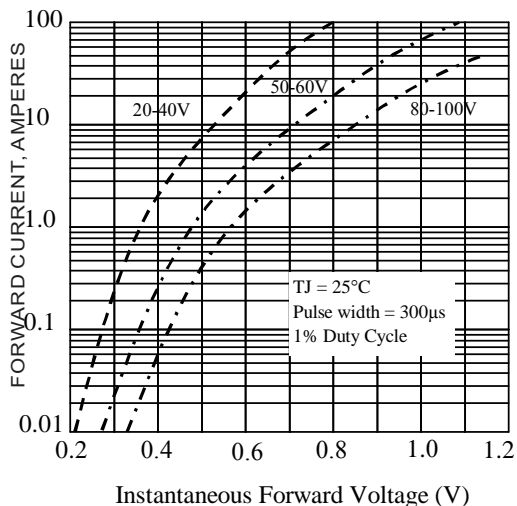


Fig.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

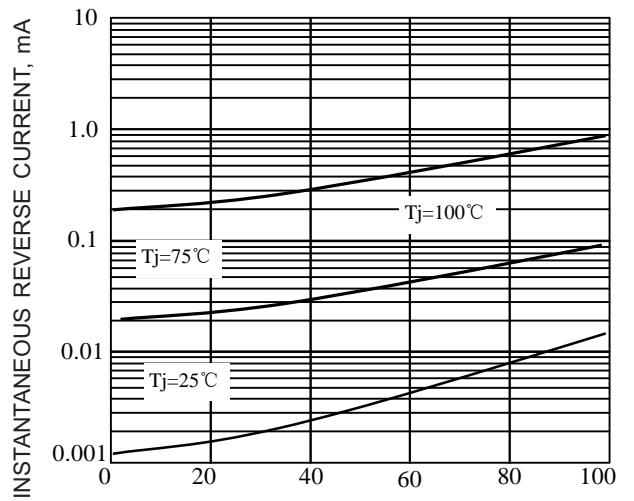


Fig.4- TYPICAL REVERSE CHARACTERISTIC

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### ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
SB1220~SB12100	DO-201AD	13 Inch	1200