

SB220~SB2200

SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20 to 200 Volt **CURRENT** 2 Ampere

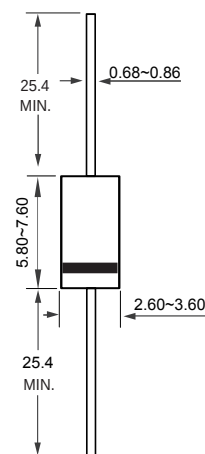
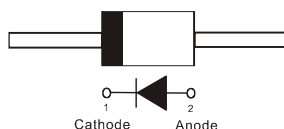
DO-15 Unit:mm

FEATURES

- Fast switching speed
- Low forward voltage
- Low power high efficiency
- High surge capability

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.

PARAMETER	SYMBOL	SB220	SB230	SB240	SB250	SB260	SB280	SB2100	SB2150	SB2200	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Current (see FIG.1)	I _{F(AV)}	2									A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50									A
Maximum Forward Voltage at 2 A	V _F	0.55			0.70		0.85		0.92	0.95	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J = 25 °C T _J = 100 °C	I _R	0.5 10					0.2 5				mA
Typical Junction Capacitance	C _J	170									pF
Thermal Resistance	R _{θJA}	50									°C / W
Operating Junction Temperature Range	T _J	-55 to +125					-55 to +150				°C
Storage Temperature Range	T _{STG}	-55 to +150									°C

NOTE :

1.Pulse test:300μS pulse width,1%duty cycle

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RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

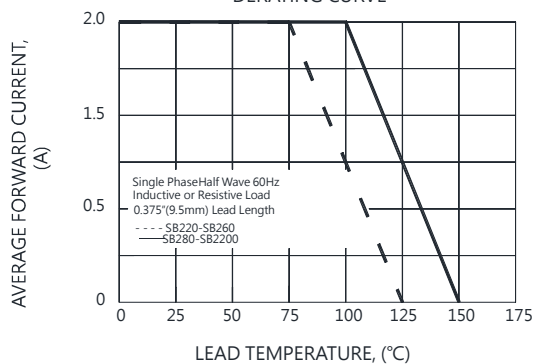


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

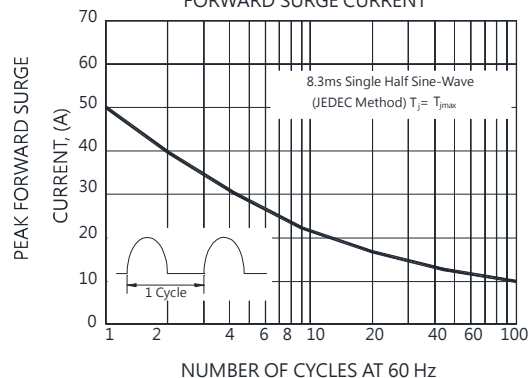


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

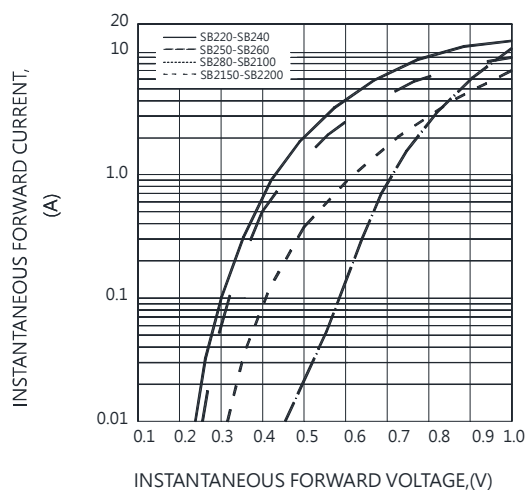
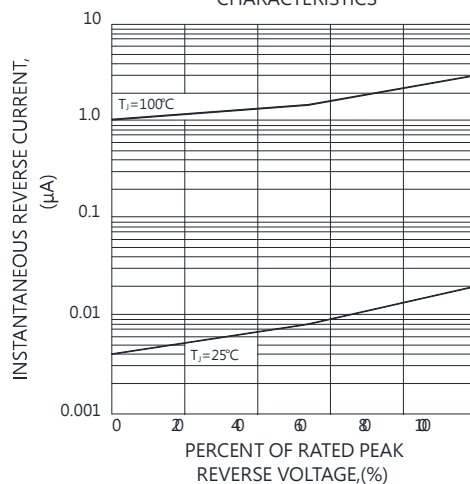


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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ORDER INFORMATION

- Packing information

SB220~SB2200	Packing Quantity
Tape&Reel	13 Inch; 4kpcs/Reel
Ammo Packing	3kpcs/Ammo Box
Bulk(Tube/Box)	1kpcs/Box