



WEET Technology Company Limited

Schottky Barrier Rectifiers

SB220 THRU SB2200

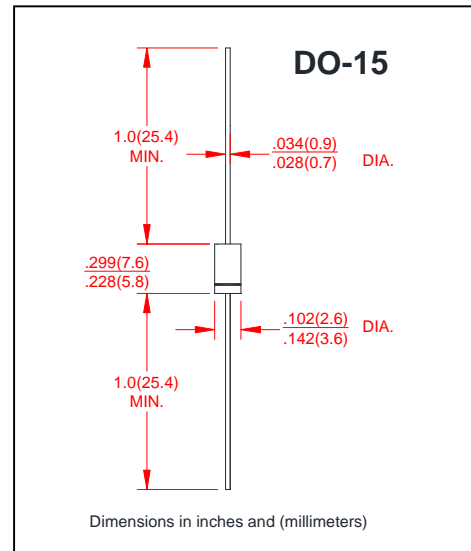
VOLTAGE RANGE 20 to 200 Volts
CURRENT 2.0 Ampere

FEATURES

- Fast switching speed
- Low forward voltage
- Low power high efficiency
- High surge capability
- High temperature soldering guaranteed
 250°C/10 seconds, 0.373"(9.5mm) lead length

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: solderable per MIL-STD-202E method 208C
- Polarity: Color band denoted cathode end
- Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOL	SB 220	SB 230	SB 240	SB 250	SB 260	SB 280	SB 2100	SB 2150	SB 2200	Unit
Maximum Repetitive 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 Rectified Current	$I_{(AV)}$	2.0									A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	50									A
Maximum Instantaneous Forward Voltage @ 2.0A(Note1)	V_F	0.50			0.70		0.85		0.92	0.95	V
Maximum DC Reverse Current at rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$	0.5					0.2				mA
	$T_A = 100^\circ\text{C}$	10					5.0				
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	50									°C/W
Operating Junction Temperature	T_J	-55 to +125					-55 to +150				°C
Storage Temperature Range	T_{STG}	-55 to +150									°C

Notes:

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



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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

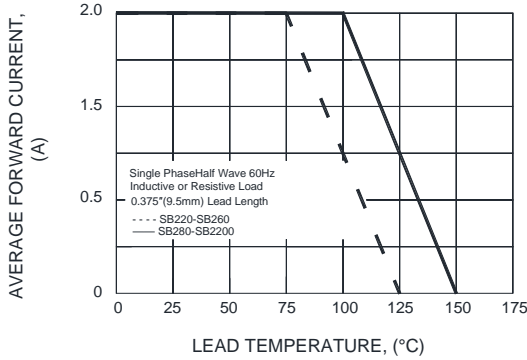


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

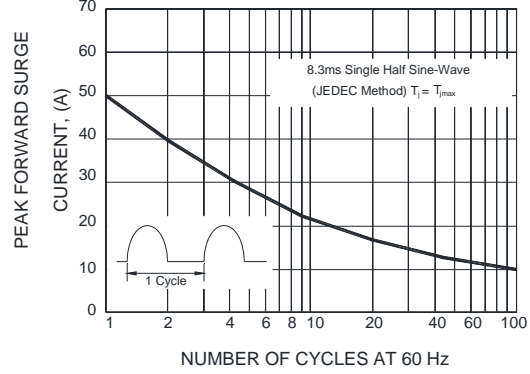


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

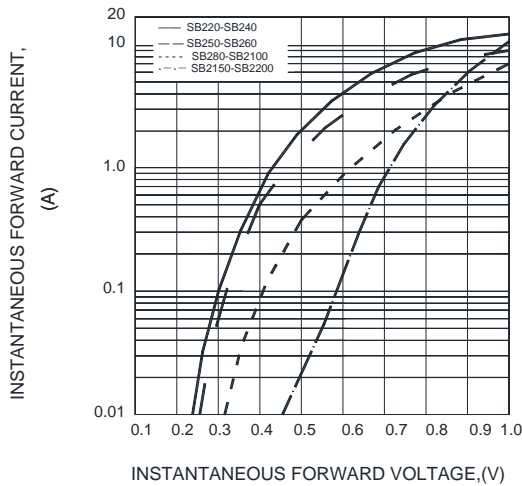
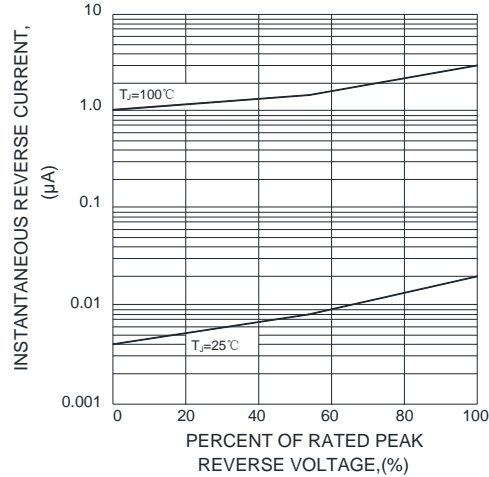


FIG.4-TYPICAL REVERSE CHARACTERISTICS



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.