

SB1020 THRU SB10150

VOLTAGE RANGE
CURRENT

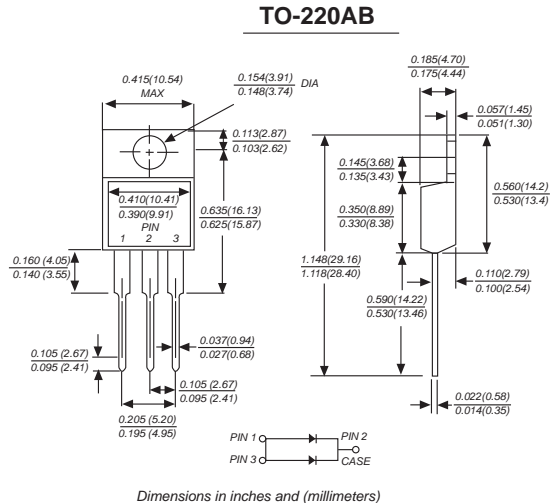
20 to 150 Volts
10.0 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Guardring for overvoltage protection
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed:
250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

- Case : R-1 molded plastic body
- Terminals : Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Mounting Position : Any
- Weight : 0.007 ounce, 0.20 gramS



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 current derate by 20%.

PARAMETER	SYMBOL	SB1020	SB1030	SB1040	SB1050	SB1060	SB1080	SB10100	SB10150	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	V
Maximum Average Forward Current .375" (9.5mm) lead length at T _c =100°C	I _{AV}					10				A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}					150				A
Maximum Forward Voltage at 10A,	V _F	0.55			0.75		0.85		0.92	V
Maximum DC Reverse Current at TA=25°C Rated DC Blocking Voltage TA=100°C	I _R					0.5				mA
Typical Thermal Resistance	R _{θJC}					3.0				°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}					-50 TO +125				°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal resistance from junction to case

SR1020C THRU SR10150C

VOLTAGE RANGE

20 to 150 Volts

CURRENT

10.0 Ampere

