SB1020 SERIES

SCHOTTKY BARRIER RECTIFIERS

20 to 60 Volt

CURRENT

10 Ampere

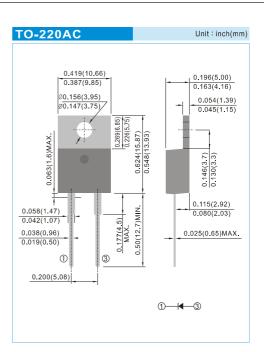
VOLTAGE

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
 Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- Low forward voltage, high current capability
- High surge capacity.
- For use in low voltage, high frequency inverters free wheeling , and polarlity protection applications.
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: TO-220AC Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Standard packaging: Any
- Weight: 0.067 ounces, 1.89 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%

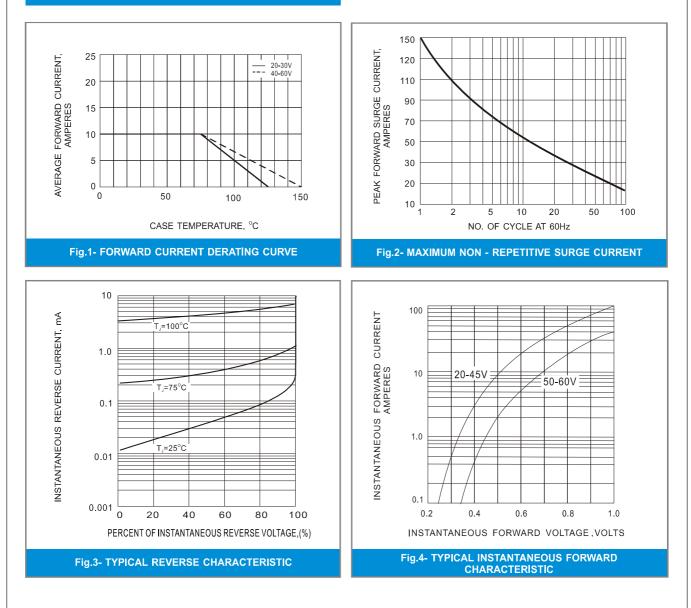
PARAMETER	SYMBOL	SB1020	SB1030	SB1040	SB1045	SB1050	SB1060	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	20	30	40	45	50	60	V
Maximum RMS Voltage	V _{rms}	14	21	28	31.5	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	45	50	60	V
Maximum Average Forward Current	I _{F(AV)}	10					A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	150					А	
Maximum Forward Voltage at 10A	V _F	0.55 0.75					V	
Maximum DC Reverse Current at Rated T _j =25°C DC Blocking Voltage T _j =100°C	I _R	0.2 50						mA
Typical Thermal Resistance	$R_{_{ ext{ hetaJC}}}$	3					°C / W	
Operating Junction Temperature Range	ΤJ	-55 to +125 -55 to +150					°C	
Storage Temperature Range	Тѕтс	-55 to +150					°C	

NOTE : Both Bonding and Chip structure are available.

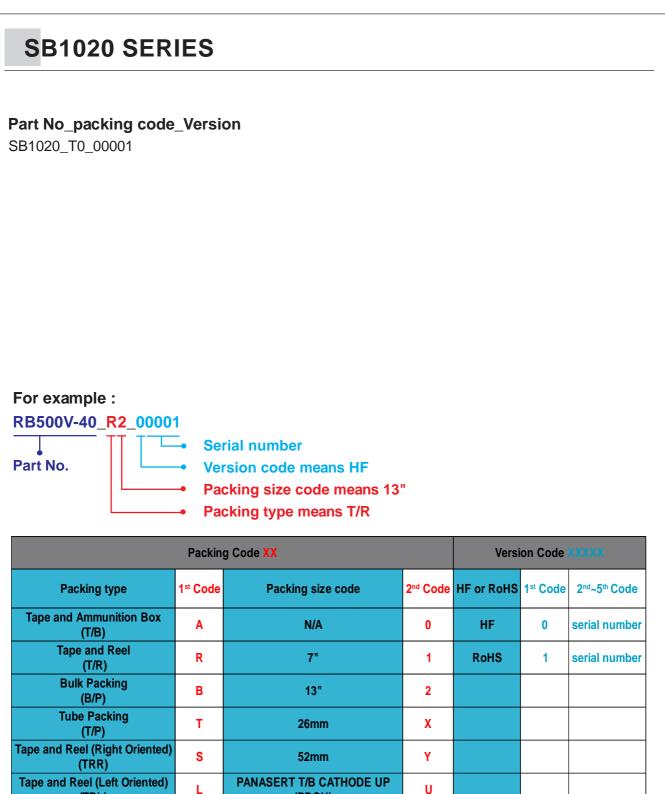


SB1020 SERIES

RATING AND CHARACTERISTIC CURVES







(TRL)

FORMING

F

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

D





SB1020 SERIES

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