

# SB1020CT~SB1060CT

#### SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 60 Volt CURRENT 10 Ampere

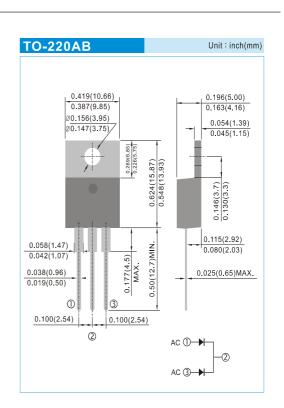
#### FEATURES

 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)

#### **MECHANCAL DATA**

- Case: TO-220AB 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%

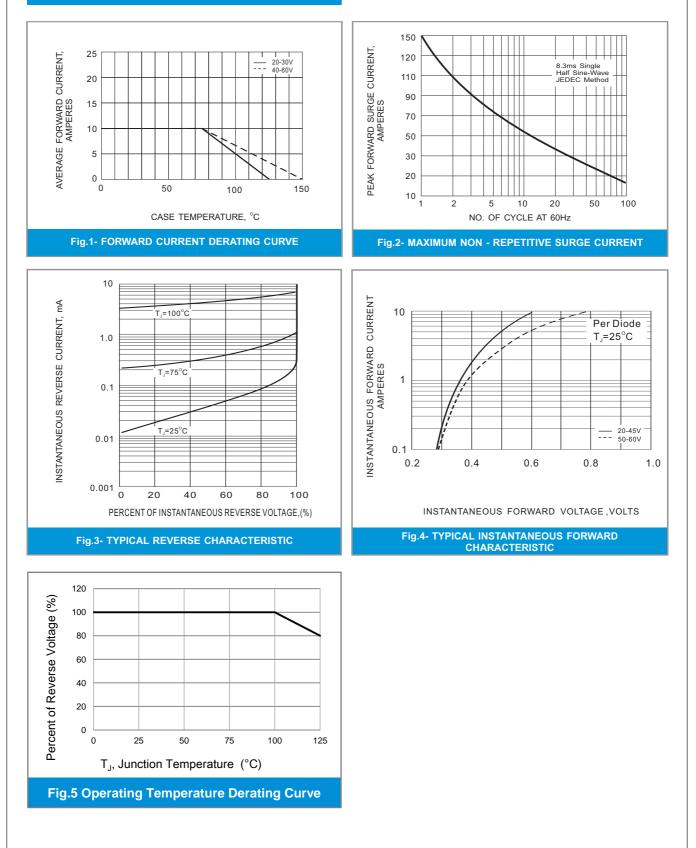
PARAMETER	SYMBOL	SB1020CT	SB1030CT	SB1040CT	SB1045CT	SB1050CT	SB1060CT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	45	50	60	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	31.5	35	42	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	45	50	60	V
Maximum Average Forward Current 0.375"(9.5mm) lead length at T <sub>c</sub> =100°C	I <sub>F(AV)</sub>	10						А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	150						А
Maximum Forward Voltage at 5A per leg	V <sub>F</sub>	0.55 0.75					V	
Maximum DC Reverse Current at $T_A = 25^{\circ}C$ Rated DC Blocking Voltage $T_A = 100^{\circ}C$	I <sub>R</sub>	0.2 50						mA
Typical Thermal Resistance	R <sub>ejc</sub>	3.0						°C / W
Operating Junction and Storage Temperature Range	Тј,Тѕтс	-50 to +125						°C

NOTE: Both Bonding and Chip structure are available.

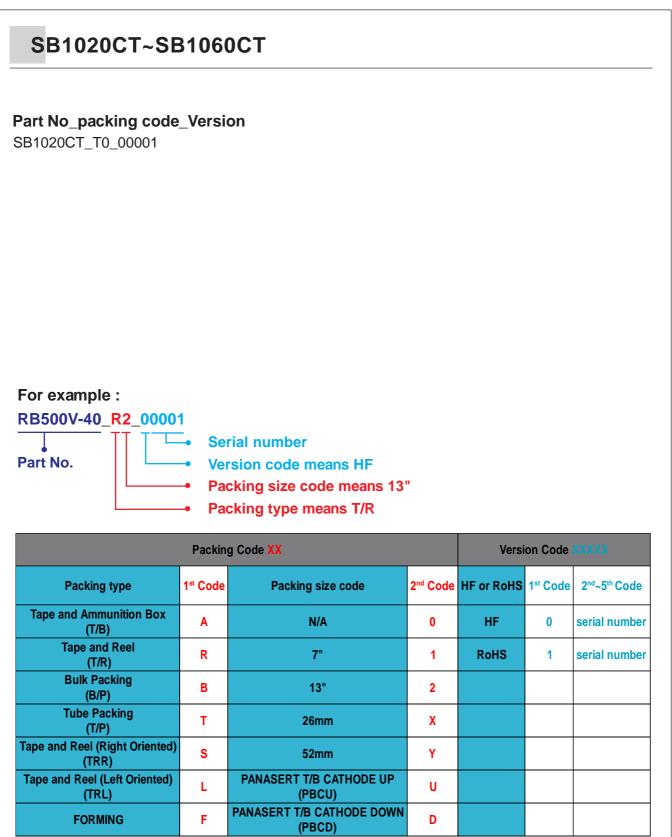


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### **RATING AND CHARACTERISTIC CURVES**











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