

# SB3020CT SERIES

### SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 60 Volt CURRENT 30 Ampere

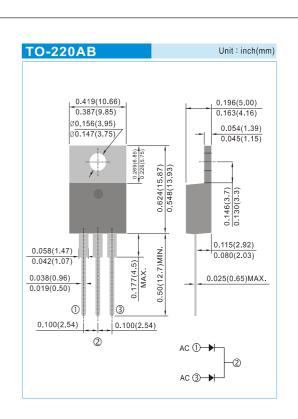
#### **Recongnized File #E228882**

#### 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-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

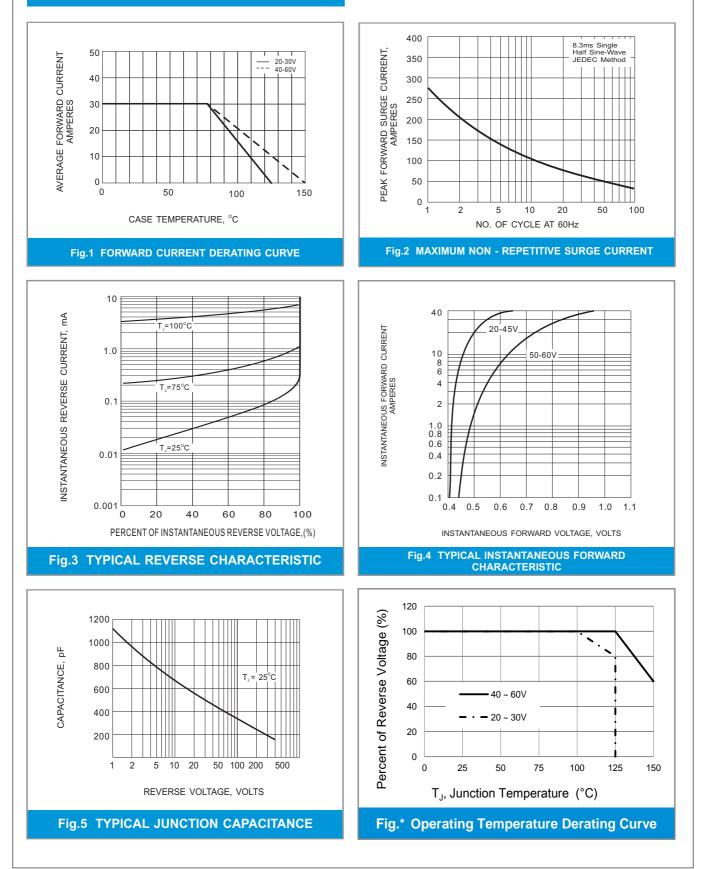
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	SB3020CT	SB3030CT	SB3040CT	SB3045CT	SB3050CT	SB3060CT	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 at Tc =75°C	I <sub>F(AV)</sub>	30					А	
Peak Forward Surge Current : 8.3 ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	275					А	
Maximum Forward Voltage at 15A per leg	V <sub>F</sub>	0.55 0.75				V		
Maximum DC Reverse Current at T <sub>j</sub> =25°C Rated DC Blocking Voltage T <sub>j</sub> =100°C	I <sub>R</sub>	0.2 50						mA
Typical Thermal Resistance	$R_{_{ ext{ hetaJC}}}$	1.5						°C / W
Operating Junction Temperature Range	T	-55 to +125 -55 to +150					°C	
Storage Temperature Range	T <sub>stg</sub>	-55 to +150						°C

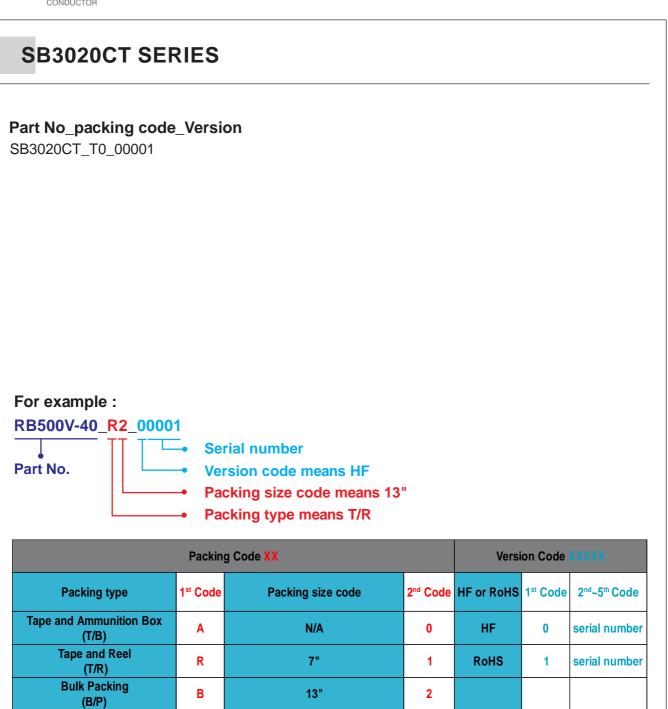


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### RATING AND CHARACTERISTIC CURVES







Tube Packing

(T/P) Tape and Reel (Right Oriented)

(TRR) Tape and Reel (Left Oriented)

(TRL)

FORMING

Т

S

L

F

26mm

52mm

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

Χ

Υ

U

D





## SB3020CT SERIES

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