

SB2020CT SERIES

SCHOTTKY BARRIER RECTIFIERS

20 to 60 Volt

CURRENT 20 Ampere

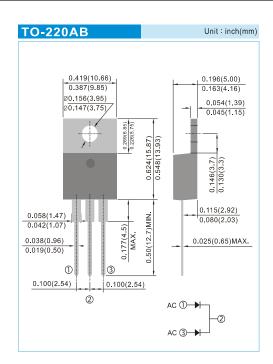
FEATURES

VOLTAGE

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
 Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- 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 2.0
- Green molding compound as per IEC 61249 standard

MECHANCAL DATA

- Case: TO-220AB Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- Standard packaging: Any
- Weight: 0.065 ounces, 1.859grams.



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	SB2020CT	SB2030CT	SB2040CT	SB2045CT	SB2050CT	SB2060CT	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	45	50	60	V
Maximum RMS Voltage		14	21	28	31	35	42	V
Maximum DC Blocking Voltage		20	30	40	45	50	60	V
Maximum Average Forward Current at T _c =75°C	I _{F(AV)}	20						А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	200						A
Maximum Forward Voltage at 10A per leg	V _F	0.55 0.75			75	V		
Maximum DC Reverse Current at Rated T _J =25 ^o C DC Blocking Voltage T _J =100 ^o C	I _R	0.2 50					mA	
Typical Thermal Resistance	$R_{_{ ext{ hetaJC}}}$	2					°C / W	
Operating Junction Temperature Range	TJ	-55 to +125 -55 to +150			°C			
Storage Temperature Range	T _{stg}	-55 to +150					°C	

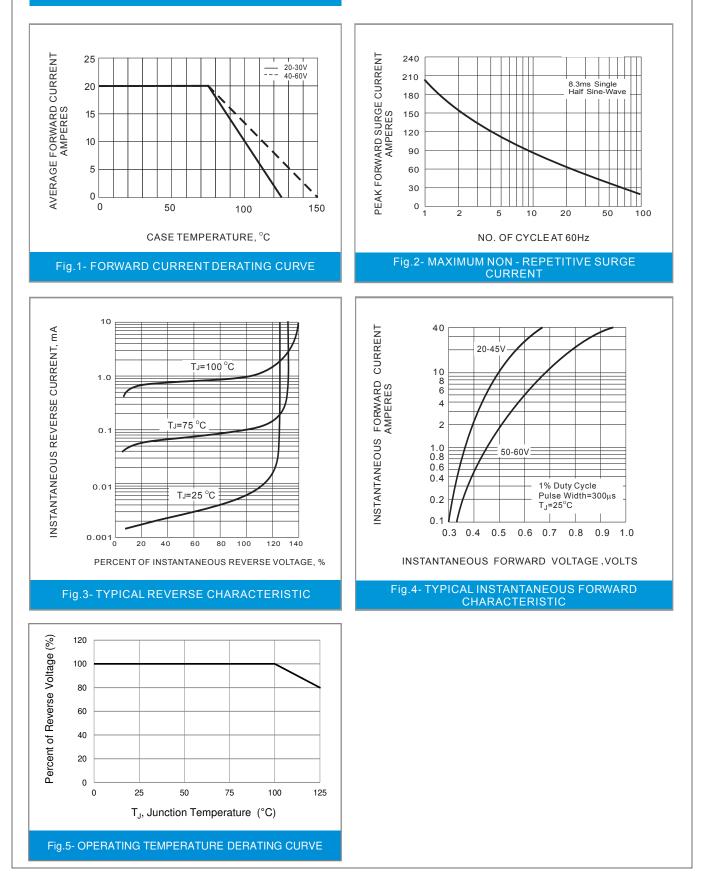
Note:

Both Bonding and Chip structure are available.

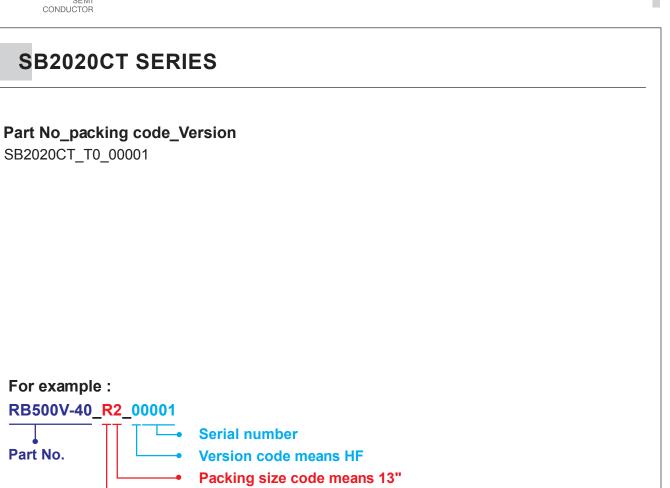


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RATING AND CHARACTERISTIC CURVES







- Packing type means T/R

Packing Code XX					Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code		
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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