



#### SCHOTTKY BARRIER RECTIFIERS

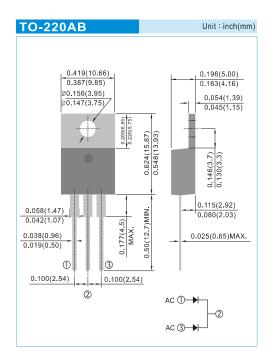
VOLTAGE 20 to 60 Volt CURRENT 20 Ampere

#### :95H F9G

- 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 &[{]|\(\hat{a}\) \(\hat{A}\) \(\hat{A}\)

#### **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 <sub>c</sub> =75°C	I <sub>F(AV)</sub>	20						
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	200						
Maximum Forward Voltage at 10A per leg	V <sub>F</sub>	0.55 0.75					٧	
Maximum DC Reverse Current at Rated $T_J$ =25 °C DC Blocking Voltage $T_J$ =100 °C	I <sub>R</sub>	0.2 50						mA
Typical Thermal Resistance	R <sub>eJC</sub>	2						°C / W
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +125 -55 to +150				°C		
Storage Temperature Range	T <sub>STG</sub>	-55 to +150						°C

#### Note:

Both Bonding and Chip structure are available.

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#### **RATING AND CHARACTERISTIC CURVES**

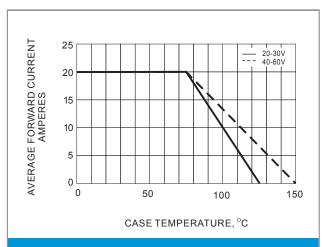


Fig.1- FORWARD CURRENT DERATING CURVE

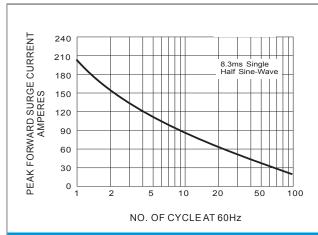


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

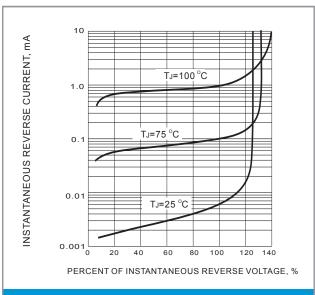


Fig.3-TYPICAL REVERSE CHARACTERISTIC

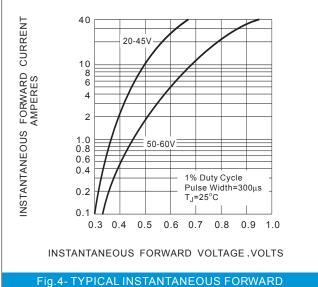


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

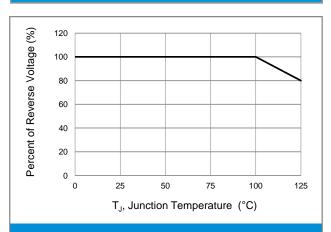


Fig.5- OPERATING TEMPERATURE DERATING CURVE

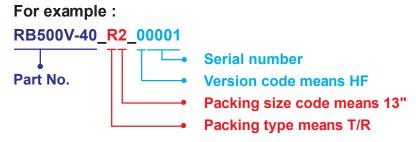
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### Part No\_packing code\_Version

SB2020CT\_T0\_00001



Packing Code XX				Version Code XXXXX				
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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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