



SCHOTTKY BARRIER RECTIFIERS

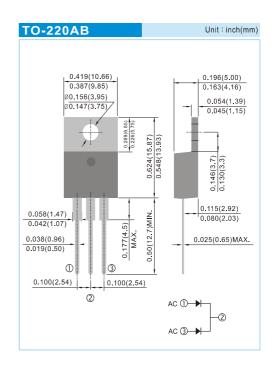
VOLTAGE 20 to 200 Volt CURRENT 20 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- · Low power loss, high efficiency.
- · Low forwrd voltge, 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	SB2020CT	SB2030CT	SB2040CT	SB2045CT	SB2050CT	SB2060CT	SB2080CT	SB20100CT	SB20150CT	SB20200CT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	45	50	60	80	100	150	200	V
Maximum RMS Voltage	VRMS	14	21	28	31	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	VDC	20	30	40	45	50	60	80	100	150	200	V
Maximum Average Forward lead length at Tc =90 °C	lav	20.0							A			
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load	lfsm	200							А			
Maximum Forward Voltage at 10.0A, per leg	VF	0.55			0.7	.75 0.85		0.92	1	V		
Maximum DC Reverse Current TA=25 °C at Rated DC Blocking Voltage TA=100°C	lR	0.5 100							mA			
Typical Thermal Resistance	Rөлс	2							°C / W			
Operating Junction Temperature Range	TJ	-55 to +125							°C			
Storage Temperature Range	Тѕтс	-55 to +150										

Note.

Both Bonding and Chip structure are available.





RATING AND CHARACTERISTIC CURVES

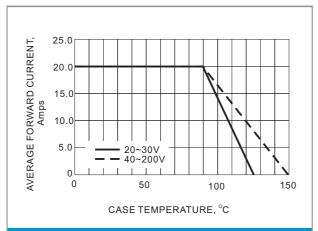


Fig.1- FORWARD CURRENT DERATING CURVE

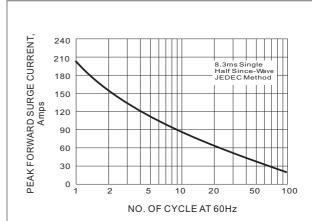


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

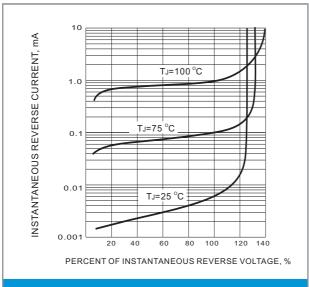


Fig.3-TYPICAL REVERSE CHARACTERISTICS

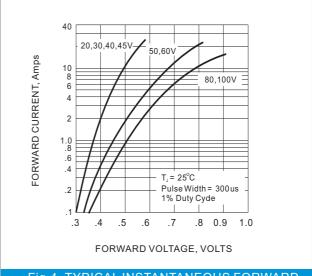


Fig.4-TYPICAL INSTANTANEOUS FORWARD CHRACTERISTICS

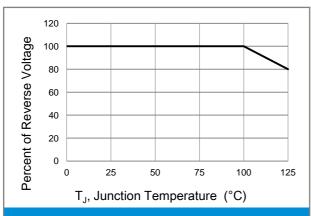


Fig.5 Operating Temperature Derating Curve





Part No_packing code_Version

SB2020CT_T0_00001

For example : RB500V-40_R2_00001 Part No. Serial number Version code means HF Packing size code means 13" 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)	A	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)	Ø	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	٦	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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