

SB2020FCT SERIES

20 to 60 Volt

SCHOTTKY BARRIER RECTIFIERS

CURRENT 20 Ampere

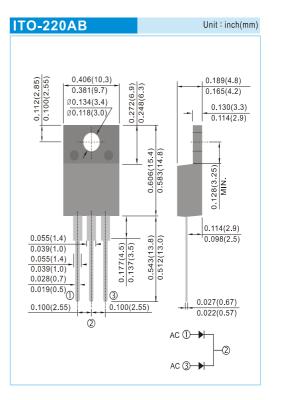
FEATURES

VOLTAGE

- 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: ITO-220AB full Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Standard packaging: Any
- Weight: 0.056 ounces, 1.6 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	SB2020FCT	SB2030FCT	SB2040FCT	SB2045FCT	SB2050FCT	SB2060FCT	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	V _{DC}	20	30	40	45	50	60	V
Maximum Average Forward Current at Tc =75 °C	I _{F(AV)}	20						А
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load	I _{fsm}	200						А
Maximum Forward Voltage at 10A per leg	V _F	0.55 0.75				75	V	
Maximum DC Reverse Current at T_=25 °C Rated DC Blocking Voltage T_=100°C	I _R	0.2 50						mA
Typical Thermal Resistance per diode	$R_{_{ ext{ hetaJC}}}$	2						°C / W
Operating Junction Temperature Range	TJ	-55 to +125 -55		-55 to	+150	°C		
Storage Temperature Range	T _{stg}	-55 to +150					°C	

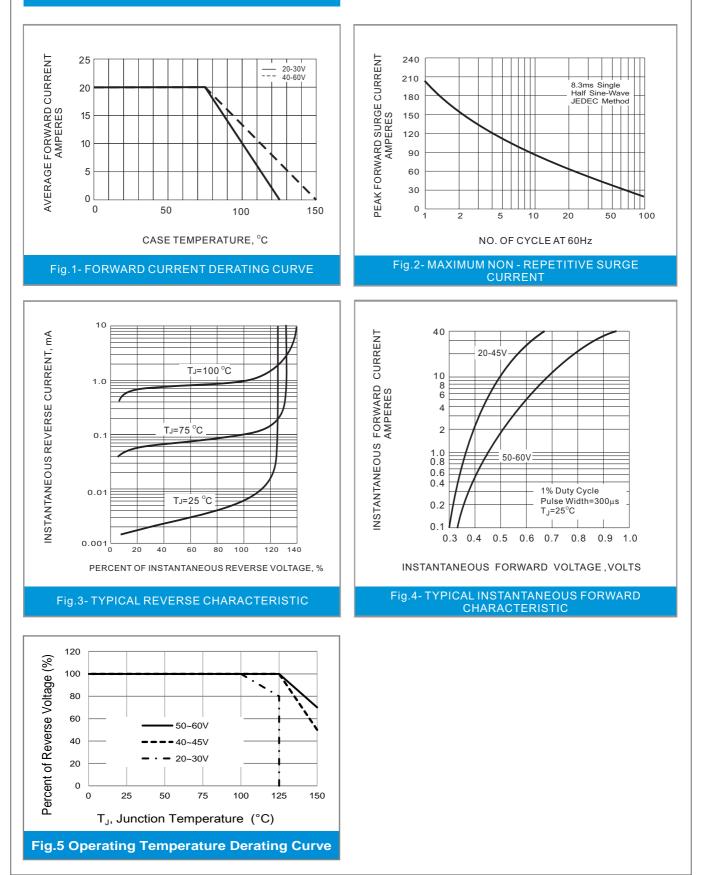
Note:

Both Bonding and Chip structure are available.



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RATING AND CHARACTERISTIC CURVES







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Part No_packing code_Version

SB2020FCT_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)	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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