

SB2020FCT SERIES

20 to 60 Volt

SCHOTTKY BARRIER RECTIFIERS

CURRENT 20 Ampere

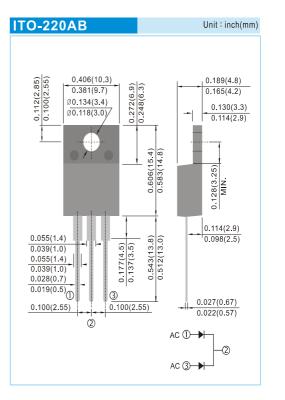
FEATURES

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 | |

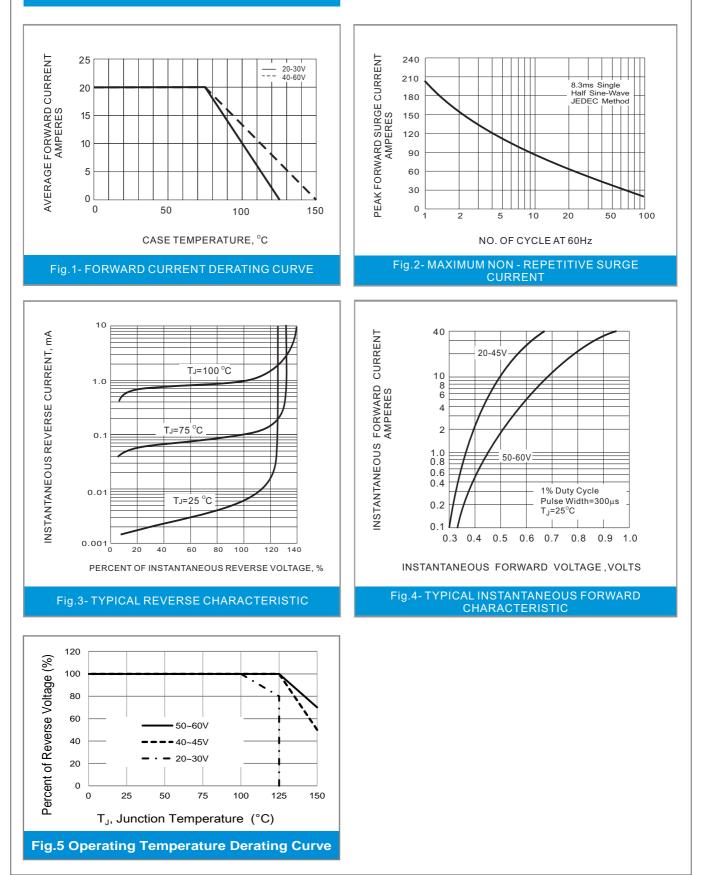
Note:

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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