



# DATA SHEET

## SB1020FCT~SB10150FCT

### ISOLATION SCHOTTKY BARRIER RECTIFIERS

**VOLTAGE** 20 to 150 Volts **CURRENT** 10 Amperes

ITO-220AB Unit : inch (mm)

#### FEATURES

- 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 polarity protection applications.
- Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

#### MECHANICAL DATA

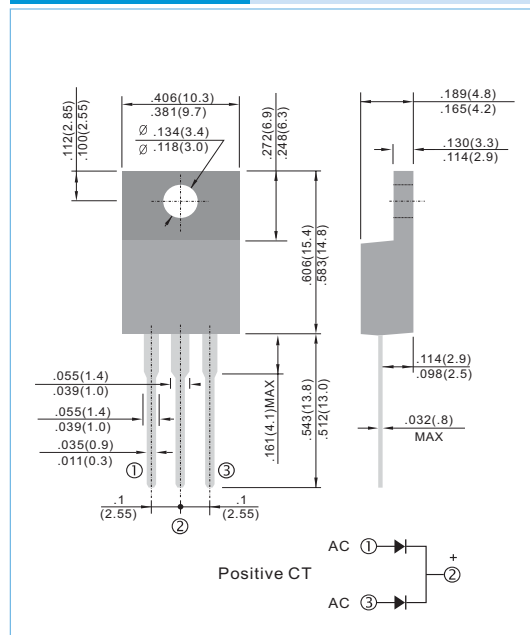
Case: ITO-220AB Molded plastic

Terminals: Solder plated, solderable per MIL-STD-202G, Method 208

Polarity: As marked.

Standard packaging: Any

Weight: 0.08 ounces, 2.24grams.



#### 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%

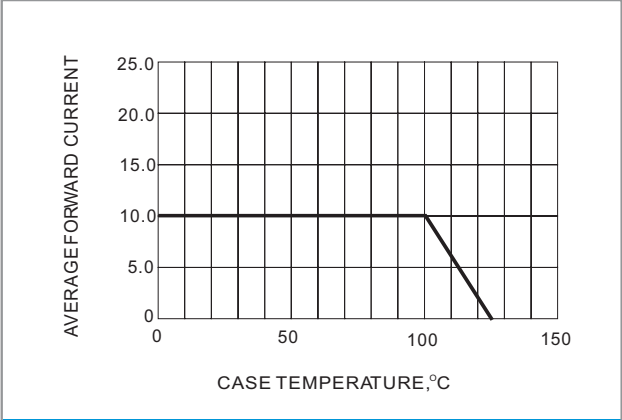
PARAMETER	SYMBOL	SB1020 FCT	SB1030 FCT	SB1040 FCT	SB1045 FCT	SB1050 FCT	SB1060 FCT	SB1080 FCT	SB10100 FCT	SB10150 FCT	UNITS	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	45	50	60	80	100	150	V	
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	31.5	35	42	56	70	105	V	
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	45	50	60	80	100	150	V	
Maximum Average Forward Current .375"(9.5mm) lead length at T <sub>c</sub> =100°C	I <sub>AV</sub>	10									A	
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I <sub>FSM</sub>	150									A	
Maximum Forward Voltage at 5.0A, per leg	V <sub>F</sub>	0.55			0.75			0.85		0.92	V	
Maximum DC Reverse Current T <sub>A</sub> =25°C at Rated DC Blocking Voltage T <sub>A</sub> =100°C	I <sub>R</sub>	0.5					50					mA
Typical Thermal Resistance	R <sub>θJC</sub>	3.0										°C / W
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-50 TO +125									°C	

#### NOTES:

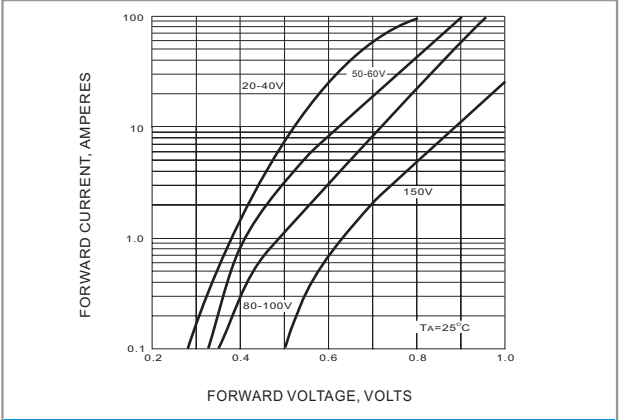
Both Bonding and Chip structure are available.



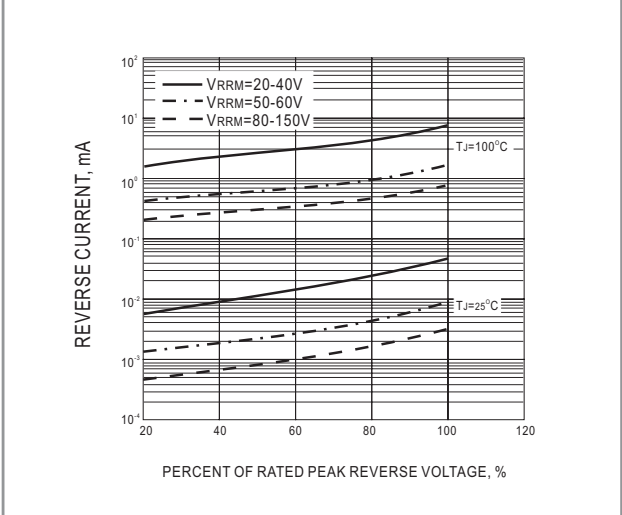
**RATING AND CHARACTERISTIC CURVES**



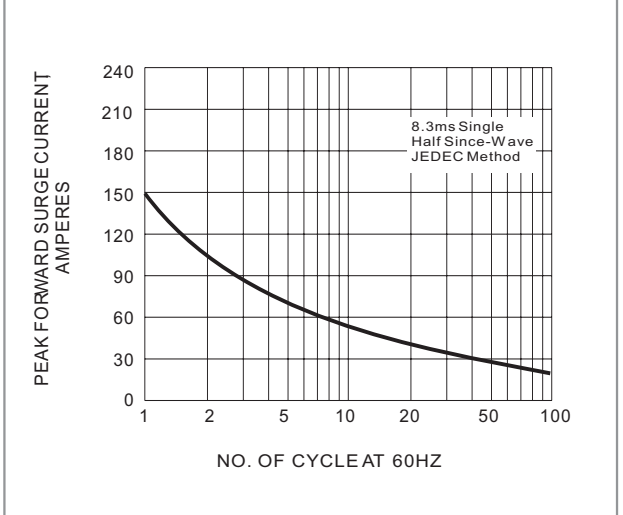
**Fig. 1- FORWARD CURRENT DERATING CURVE**



**Fig. 2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC**



**Fig. 3- TYPICAL REVERSE CHARACTERISTIC**



**Fig. 4- TMAXIMUM NON - REPETITIVE SURGE CURRENT**

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