



DATA SHEET

SB1020FCT~SB10150FCT

ISOLATION SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 150 Volts CURRENT 10 Amperes

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 forwrd voltge, high current capability
- · High surge capacity.
- For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications.
- Pb free product are available: 99% Sn above can meet Rohs environment substance directive request

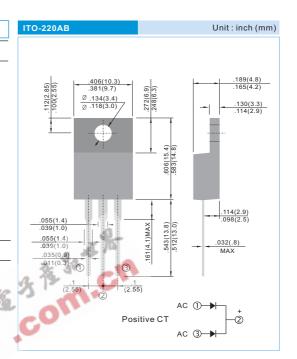
MECHANCALDATA

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	VRRM	20	30	40	45	50	60	80	100	150	٧
Maximum RMS Voltage	VRMS	14	21	28	31.5	35	42	56	70	105	٧
Maximum DC Blocking Voltage	VDC	20	30	40	45	50	60	80	100	150	٧
Maximum Average Forward Current .375*(9.5mm) lead length at Tc =100°C	lav	10									А
Peak Forward Surge Current :8.3ms single half sine- wave superimposed on rated load(JEDEC method)	lfsm	150									A
Maximum Forward Voltage at 5.0A, per leg	VF	0.55 0.75 0.85 0.92						0.92	٧		
Maximum DC Reverse Current TA=25°C at Rated DC Blocking Voltage TA=100°C	lr	0.5 50									mA
Typical Thermal Resistance	RøJC	3.0									°C / W
Operating Junction and Storage Temperature Range	TJ,TSTG	-50 TO +125									°C

NOTES:

Both Bonding and Chip structure are available.

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RATING AND CHARACTERISTIC CURVES

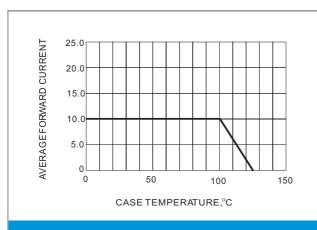


Fig.1- FORWARD CURRENT DERATING CURVE

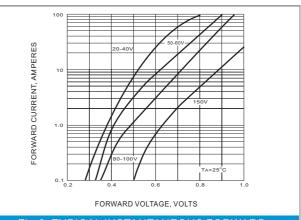


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHRACTERISTIC

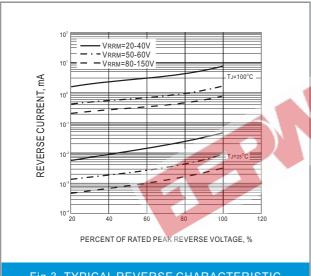


Fig.3-TYPICAL REVERSE CHARACTERISTIC

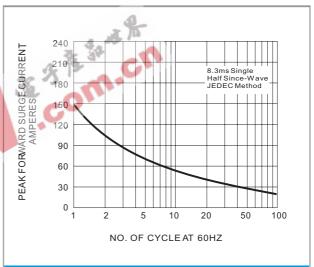


Fig.4- TMAXIMUM NON - REPETITIVE SURGE CURRENT

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