

SB1020FCT~SB1060FCT

ISOLATION SCHOTTKY BARRIER RECTIFIERS

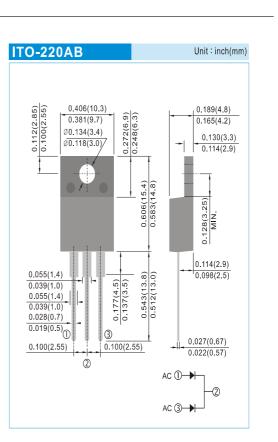
VOLTAGE 20 to 60 Volt CURRENT 10 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
 Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- Low forward 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: ITO-220AB 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		SB1020FCT	SB1030FCT	SB1040FCT	SB1045FCT	SB1050FCT	SB1060FCT	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	45	50	60	V
Maximum RMS Voltage		14	21	28	31.5	35	42	V
Maximum DC Blocking Voltage	VDC	20	30	40	45	50	60	V
Maximum Average Forward Current at Tc =75°C	lav	10				А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	Ifsm	150				А		
Maximum Forward Voltage at 5A	Vf	0.55 0.75		.75	V			
Maximum DC Reverse Current at Rated DC Blocking TJ=25°C Voltage TJ=100°C	IR		0.2 0.1 50 50			mA		
Typical Thermal Resistance	Røjc	3			°C / W			
Operating Junction Temperature Range	TJ	-55 to	5 to +125 -55 to +150			°C		
Storage Temperature Range	Тѕтс	-55 to +150			°C			

NOTES : Both Bonding and Chip structure are available.



RATING AND CHARACTERISTIC CURVES

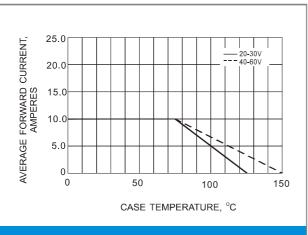


Fig.1- FORWARD CURRENT DERATING CURVE

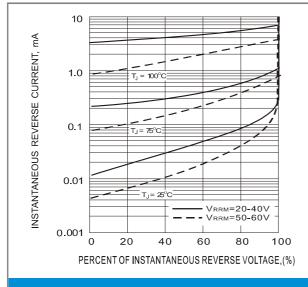
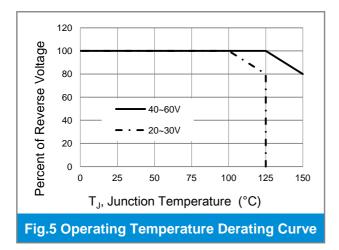


Fig.3- TYPICAL REVERSE CHARACTERISTIC



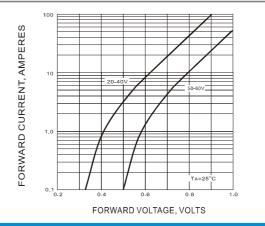


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

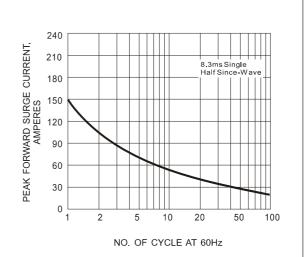


Fig.4- MAXIMUM NON - REPETITIVE SURGE CURRENT

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1





SB1020FCT~SB1060FCT

Part No_packing code_Version

SB1020FCT_T0_00001

For example :

RB500V-40_R2_00001



- 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)	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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