



ISOLATION SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 60 Volt

CURRENT

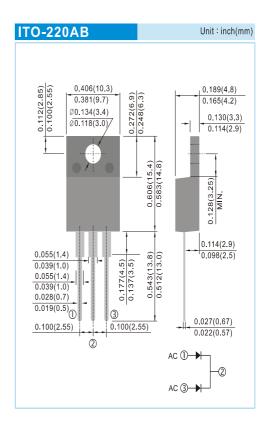
10 Ampere

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	SYMBOL	SB1020FCT	SB1030FCT	SB1040FCT	SB1045FCT	SB1050FCT	SB1060FCT	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	45	50	60	٧
Maximum RMS Voltage		14	21	28	31.5	35	42	٧
Maximum DC Blocking Voltage	VDC	20	30	40	45	50	60	V
Maximum Average Forward Current at Tc =75°C	lav	10					Α	
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			٧			
Maximum DC Reverse Current at Rated DC Blocking T _J =25°C Voltage T _J =100°C	IR	0.2 50 0.1 50			mA			
Typical Thermal Resistance	Rejc	3				°C / W		
Operating Junction Temperature Range	TJ	-55 to +125 -55 to +150			°C			
Storage Temperature Range	Тѕтс	-55 to +150			°C			

 $\ensuremath{\mathsf{NOTES}}$: Both Bonding and Chip structure are available.





RATING AND CHARACTERISTIC CURVES

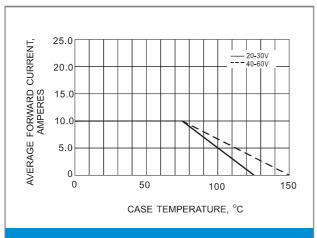


Fig.1-FORWARD CURRENT DERATING CURVE

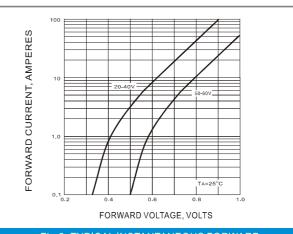


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

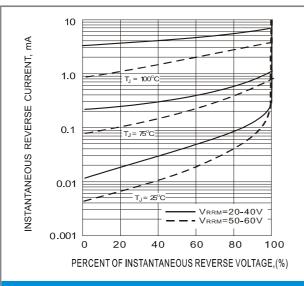


Fig.3-TYPICAL REVERSE CHARACTERISTIC

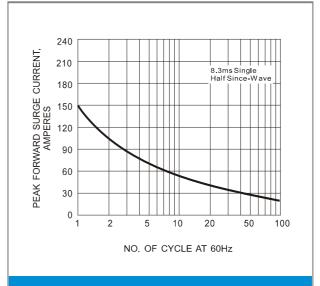
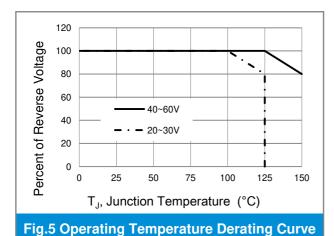


Fig.4- MAXIMUM NON - REPETITIVE SURGE CURRENT

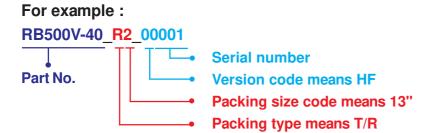






Part No_packing code_Version

SB1020FCT_T0_00001



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	Υ					
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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