



SCHOTTKY BARRIER RECTIFIER

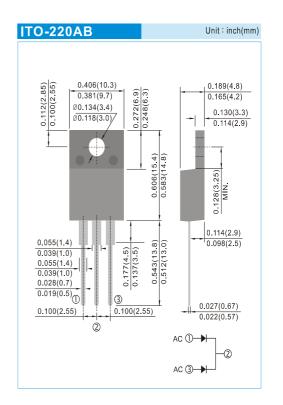
VOLTAGE 20 to 60 Volt CURRENT 8 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing 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)

MECHANICAL DATA

- Case: ITO-220AB full molded plastic package
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- · 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		SB820FCT	SB830FCT	SB840FCT	SB845FCT	SB850FCT	SB860FCT	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	45	50	60	٧
Maximum RMS Voltage		14	21	28	31	35	42	V
Maximum DC Blocking Voltage		20	30	40	45	50	60	V
Maximum Average Forward Current at T _c =75°C	I _{F(AV)}	8					А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150				А		
Maximum Forward Voltage at 4A	V _F	0.55 0.75			V			
Maximum DC Reverse Current at Rated DC $T_{\rm J}$ =25°C Blocking Voltage $T_{\rm J}$ =100°C	I _R	0.2 50				0.1 50		mA
Typical Thermal Resistance	R _{eJC}	3				°C / W		
Operating Junction Temperature Range		-55 to +125 -55 to +150				°C		
Storage Temperature Range	T _{STG}	-55 to +150			°C			

NOTES: Both Bonding and Chip structure are available.





RATING AND CHARACTERISTIC CURVES

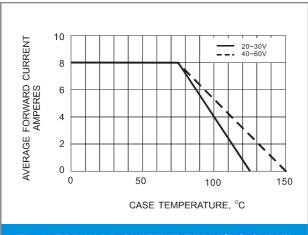


Fig.1- FORWARD CURRENT DERATING CURVE

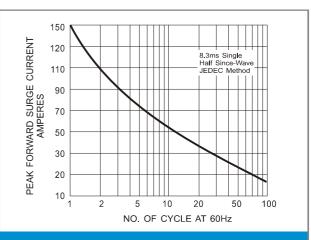


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

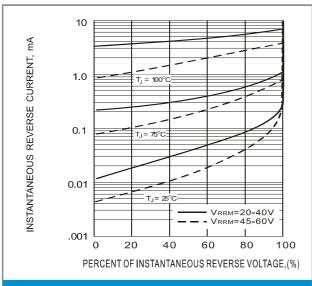


Fig.3- TYPICAL REVERSE CHARACTERISTICS

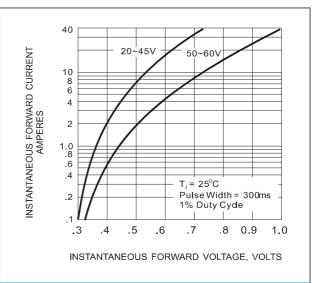


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS





Part No_packing code_Version

SB820FCT_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	Х					
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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