



SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 60 Volts CURRENT

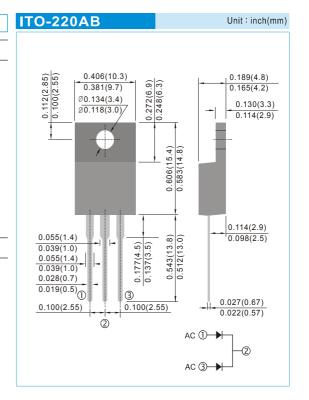
30 Amperes

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 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 comply with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- · Case: ITO-220AB full Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Standard packaging: Any
- · Weight: 0.055 ounces, 1.5615 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	SB3020FCT	SB3030FCT	SB3040FCT	SB3045FCT	SB3050FCT	SB3060FCT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	45	50	60	V
Maximum RMS Voltage	V _{RMS}	14	21	28	31.5	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	45	50	60	V
Maximum Average Forward Current at Tc =75°C	I _{F(AV)}	30						
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	275						
Maximum Forward Voltage at 15A per leg	V _F	0.55 0.75					75	V
Maximum DC Reverse Current at $T_J=25^{\circ}$ C Rated DC Blocking Voltage $T_J=100^{\circ}$ C	I _R	0.2 50						
Typical Thermal Resistance	R _{eJC}	1.5						
Operating Junction Temperature Range	T _J	-55 to +125 -55 to +150					°C	
Storage Temperature Range	T _{STG}	-55 to +150						





RATING AND CHARACTERISTIC CURVES

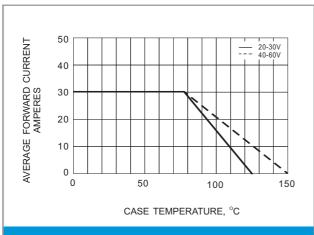


Fig.1- FORWARD CURRENT DERATING CURVE

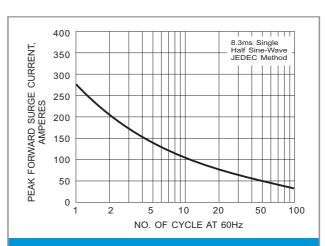


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

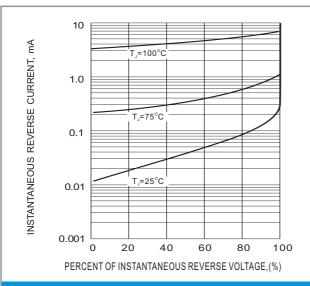


Fig.3- TYPICAL REVERSE CHARACTERISTIC

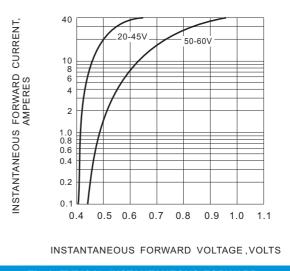
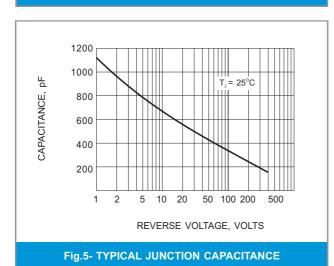


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC







Part No_packing code_Version

SB3020FCT_T0_00001 SB3020FCT_T0_10001

For example:



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	
T/B	A	N/A	0	HF	0	serial number	
T/R	R	7"	1	RoHS	1	serial number	
B/P	В	13"	2				
T/P	Т	26mm	X				
TRR	S	52mm	Υ				
TRL	L	PBCU	U				
FORMING	F	PBCD	D				





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