SB1020F~SB1060F

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 60 Volt

FEATURES

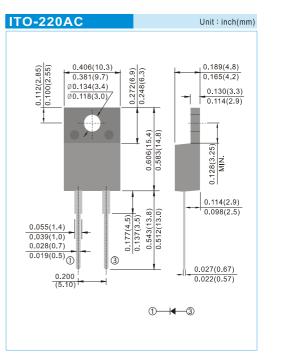
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
 Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- Low forward voltage, high current capability
- High surge capacity.
- For use in low voltage, high frequency inverters free wheeling , and polarlity protection applications.
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

CURRENT

10 Ampere

MECHANICAL DATA

- Case: ITO-220AC Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- Standard packaging: Any
- Weight: 0.055 ounces, 1.56 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%

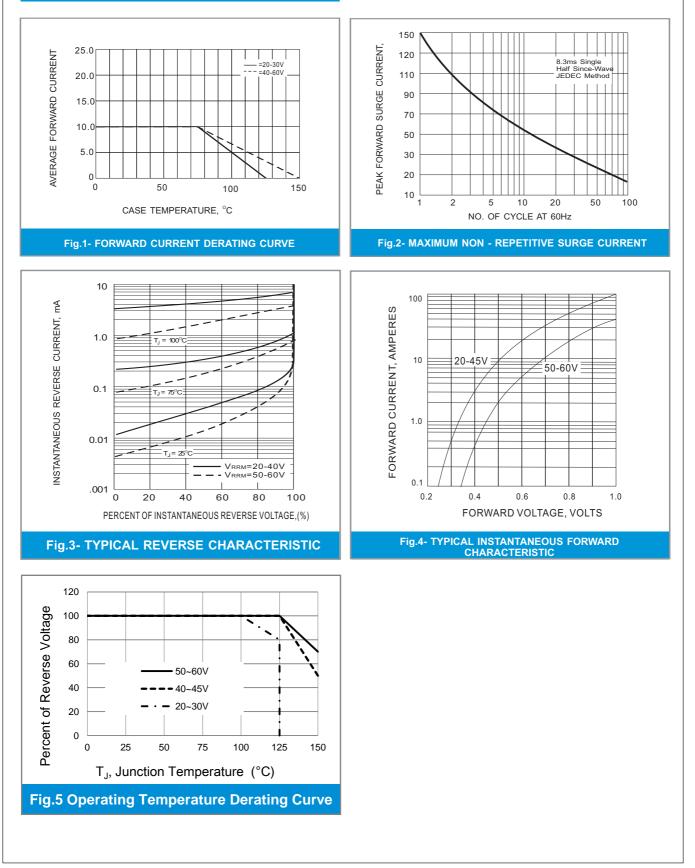
PARAMETER		SB1020F	SB1030F	SB1040F	SB1045F	SB1050F	SB1060F	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	45	50	60	V
Maximum RMS Voltage		14	21	28	31.5	35	42	V
Maximum DC Blocking Voltage		20	30	40	45	50	60	V
Maximum Average Forward Current at T _c =75°C	I _{F(AV)}	10						A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	150						A
Maximum Forward Voltage at 10A	V _F	0.55				0.75		V
Maximum DC Reverse Current at Rated DC Blocking $T_j=25^{\circ}C$ Voltage $T_j=100^{\circ}C$	I _R	0.2 50			0.1 50			mA
Typical Thermal Resistance	$R_{_{ ext{ hetaJC}}}$	3						°C / W
Operating Junction Temperature Range	TJ	-55 to +125 -55 to +150			°C			
Storage Temperature Range	Тѕтс	-55 to +150					٥C	

Note : Both Bonding and Chip structure are available.



SB1020F~SB1060F

RATING AND CHARACTERISTIC CURVES





CONDUCTOR						
SB1020F~SB	106	0F				
Part No_packing code SB1020F_T0_00001	_Versio	on				
For example : <u>RB500V-40_R2_00001</u> Part No.	→ Se → Ve → Pa → Pa	rial number rsion code means HF cking size code means 13" cking type means T/R g Code XX		Vors	on Code	*****
Packing type	1 st Code	-	2 nd Code	HF or RoHS		
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	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
EORMING	-	PANASERT T/B CATHODE DOWN				

(PBCD)

D

FORMING

F





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