



DATA SHEET

SB1020~SB10150

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 150 Volts **CURRENT** 10 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 forwrd voltge, high current capability
- · High surge capacity.
- For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications.
- Pb free product are available: 99% Sn above can meet Rohs environment substance directive request

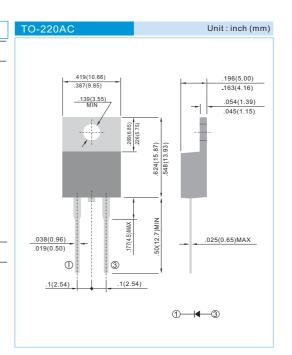
MECHANICAL DATA

Case: TO-220AC Molded plastic

Terminals: Solder plated, solderable per MIL-STD-202G, Method 208

Polarity: As marked. Standard packaging: Any Weight: 0.08 ounces, 2.24grams.

For capacitive load, derate current by 20%



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

CAMBOI	CP1020	SP1020	CD1040	CD1050	SB1060	CD1000	CD10100	CD10150	LIMITE
STWIDOL	301020	301030	301040	301030	301000	301000	3010100	3010130	UNITS
VRRM	20	30	40	50	60	80	100	150	V
VRMS	14	21	28	35	42	56	70	105	V
VDC	20	30	40	50	60	80	100	150	V
lav	10							A	
IFSM	150								A
VF	0.55			0.	75	0	.85	0.92	V
lr	0.5 50								mA
RθJC	3.0								°C / W
ТJ,Тsтg	-50 TO +125								°C
	VRMS VDC IAV IFSM VF IR	VRRM 20 VRMS 14 VDC 20 IAV IFSM VF IR	VRMM 20 30 VRMS 14 21 VDC 20 30 IAV IFSM VF 0.55 IR RØJC	VRMM 20 30 40 VRMS 14 21 28 VDC 20 30 40 IAV IFSM VF 0.55 IR RØJC	VRRM 20 30 40 50 VRMS 14 21 28 35 VDC 20 30 40 50 IAV IFSM VF 0.55 0.	VRRM 20 30 40 50 60 VRMS 14 21 28 35 42 VDC 20 30 40 50 60 IAV 10 IFSM 150 VF 0.55 0.75 IR 0.5 50 RØJC 3.0	VRM 20 30 40 50 60 80 VRMS 14 21 28 35 42 56 VDC 20 30 40 50 60 80 IAV 10 IFSM 150 VF 0.55 0.75 0 IR 0.5 50 RØJC 3.0	VRRM 20 30 40 50 60 80 100 VRMS 14 21 28 35 42 56 70 VDC 20 30 40 50 60 80 100 IAV 10 UFSM 150 VF 0.55 0.75 0.85 IR 0.5 50 RØJC 3.0	VRRM 20 30 40 50 60 80 100 150 VRMS 14 21 28 35 42 56 70 105 VDC 20 30 40 50 60 80 100 150 IAV 10 UFSM 150 VF 0.55 0.75 0.85 0.92 IR 0.5 50 RØJC 3.0

Note.

Both Bonding and Chip structure are available.

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RATING AND CHARACTERISTIC CURVES

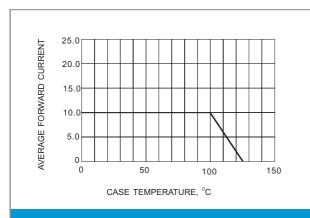


Fig.1- FORWARD CURRENT DERATING CURVE

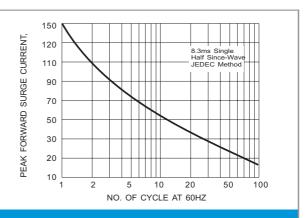


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

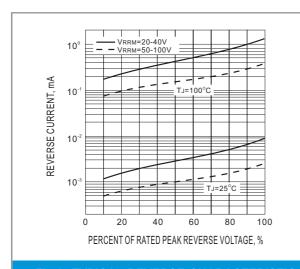


Fig.3- TYPICAL REVERSE CHARACTERISTIC

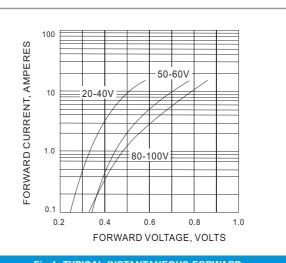


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

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