



DATA SHEET

SB1020CT~SB10100CT

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE- 20 to 100 Volts CURRENT - 10.0 Ampere

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.

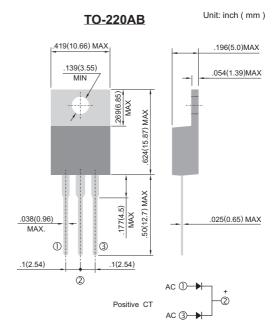
MECHANICAL DATA

Case: TO-220AB Molded plastic

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

Polarity: As marked.
Standard packaging: Any

Weight: 0.08 ounces, 2.24grams.



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%

	SB1020CT	SB1030CT	SB1040CT	SB1050CT	SB1060CT	SB1080CT	SB10100CT	UNIT
Maximum Recurrent Peak Reverse Voltage	20.0	30.0	40.0	50.0	60.0	80.0	100.0	V
Maximum RMS Voltage	14.0	21.0	28.0	35.0	42.0	56.0	70.0	V
Maximum DC Blocking Voltage	20.0	30.0	40.0	50.0	60.0	80.0	100.0	V
Maximum Average Forward Rectified Current at Tc=90°C	10							А
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	150							А
Maximum Instantaneous Forward Voltage at 5.0A per element	0.55			0.75		0.85		V
Maximum DC Reverse Current (Note 1) Ta=25°C at Rated DC Blocking Voltage Ta=100°C	0.5 50							mA
Typical Thermal Resistance Note RθJA	60							°C/W
Operating and Storage Temperature Range T _J	-50 to +125							°C

NOTES:

1. Thermal Resistance Junction to Ambient .

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RATING AND CHARACTERISTIC CURVES

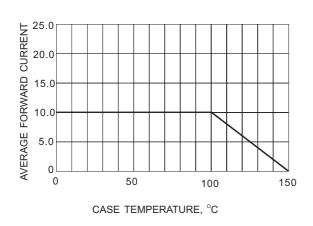


Fig.1- FORWARD CURRENT DERATING CURVE

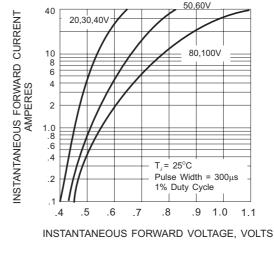


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

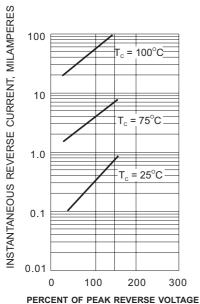


Fig.3- TYPICAL REVERSE CHARACTERISTIC

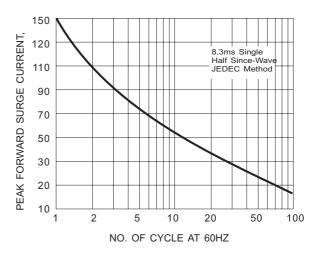


Fig.4- MAXIMUM NON-REPETITIVE SURGE CURRENT

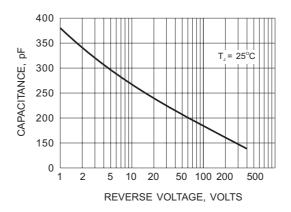


Fig.5- TYPICAL JUNCTION CAPACITANCE

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