



DATA SHEET

SB1620CT~SB16100CT

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 100 Volts **CURRENT** 16 Amperes

TO-220AB

Unit : inch (mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing 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 polarity protection applications.
- Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

MECHANICAL DATA

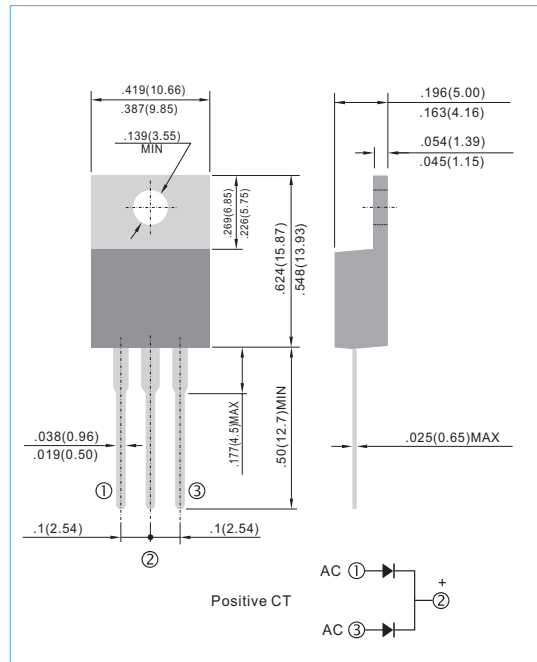
Case: TO-220AB molded plastic package

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

Polarity: As marked.

Mounting Position: Any

Weight: 0.08 ounces, 2240mg



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	SB1620CT	SB1630CT	SB1640CT	SB1645CT	SB1650CT	SB1660CT	SB1680CT	SB16100CT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	45	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	31.5	35	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	45	50	60	80	100	V
Maximum Average Forward Current .375" (9.5mm) lead length at $T_c = 90$	I_{AV}	16								A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	150								A
Maximum Forward Voltage at 8.0A, per leg	V_F	0.55				0.75		0.85		V
Maximum DC Reverse Current $T_A=25$ at Rated DC Blocking Voltage $T_A=100$	I_R					0.5 100				mA
Typical Thermal Resistance	$R_{\theta JC}$	2								/ W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-50 TO +125								

NOTES:

Both Bonding and Chip structure are available.



RATING AND CHARACTERISTIC CURVES

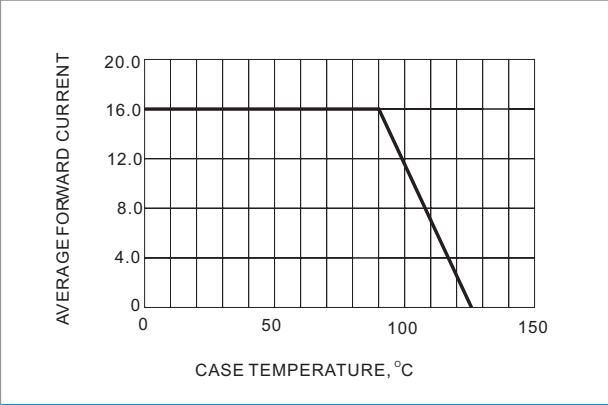


Fig. 1- FORWARD CURRENT DERATING CURVE

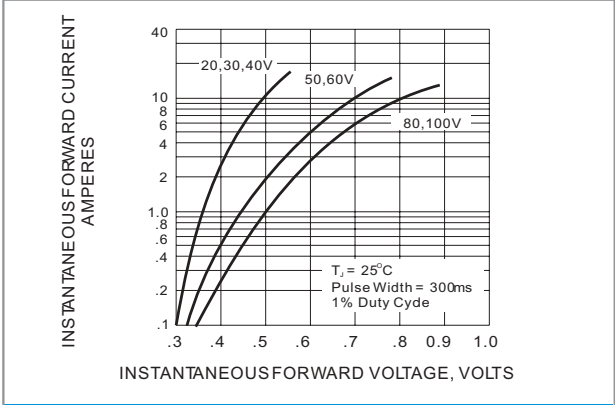


Fig. 2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

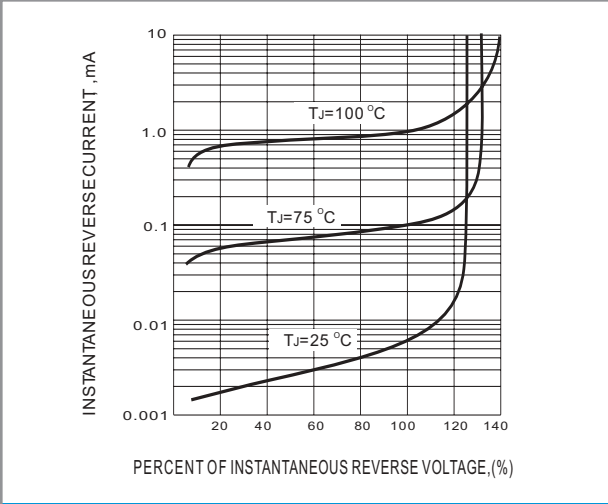


Fig. 3- TYPICAL REVERSE CHARACTERISTIC

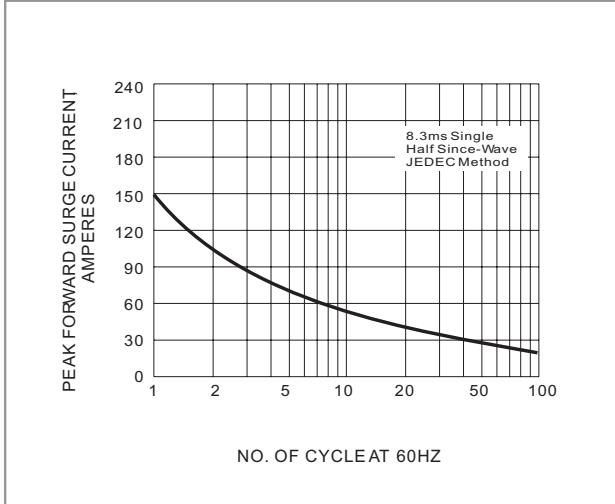


Fig. 4- MAXIMUM NON - REPETITIVE SURGE CURRENT

单击下面可查看定价，库存，交付和生命周期等信息

[>>Panjit\(强茂\)](#)