



DATA SHEET

SB3020PT~SB3060PT

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 60 Volts **CURRE** 30.0 Amperes

TO-3P

Unit: inch (mm)

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 polarity protection applications.
- Pb free product are available: 99% Sn above can meet Rohs environment substance directive request

MECHANICAL DATA

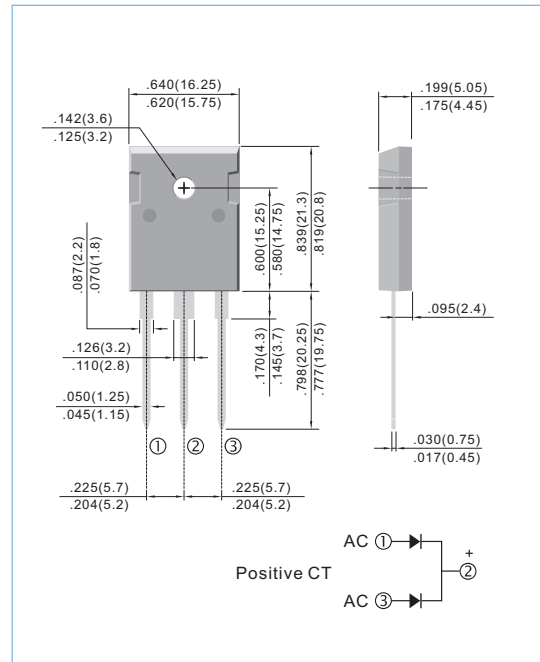
Case: TO-3P Molded plastic

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

Polarity: As marked.

Standard packaging: Any

Weight: 0.2 ounces, 5.6grams.



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	SB30 20PT	SB30 30PT	SB30 35PT	SB30 40PT	SB30 45PT	SB30 50PT	SB30 60PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	35	40	45	50	60	V
Maximum RMS Voltage	V_{RMS}	14	21	24.5	28	31.5	35	42	V
Maximum DC Blocking Voltage	V_{DC}	20	30	35	40	45	50	60	V
Maximum Average Forward Current .375"(9.5mm) lead length at $T_c = 100$	I_{AV}	30							A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	275							A
Maximum Forward Voltage at 15A	V_F	0.55					0.70		V
Maximum DC Reverse Current $T_A = 25$ at Rated DC Blocking Voltage $T_A = 100$	I_R	1.0 100							mA
Maximum Thermal Resistance	R_{QJC}	1.5							/ 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

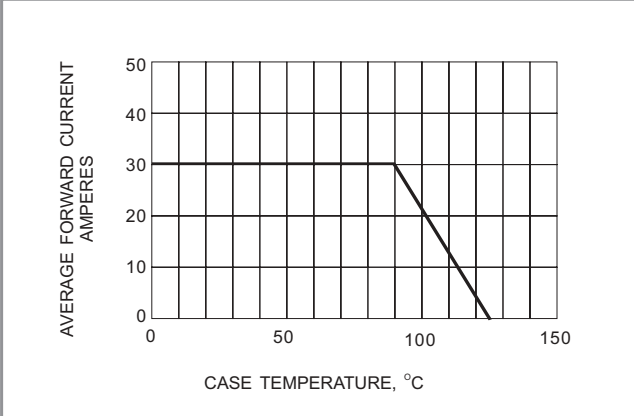


Fig.1- FORWARD CURRENT DERATING CURVE

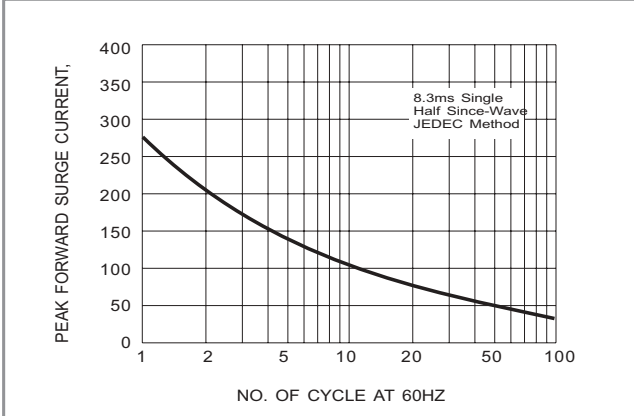


Fig.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

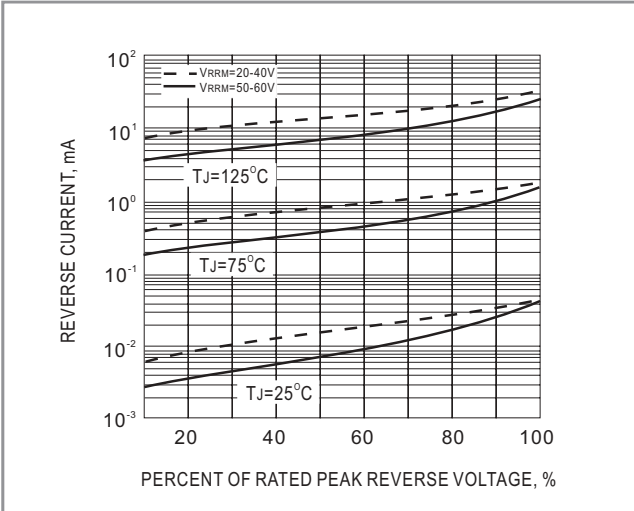


Fig.3- TYPICAL REVERSE CHARACTERISTICS

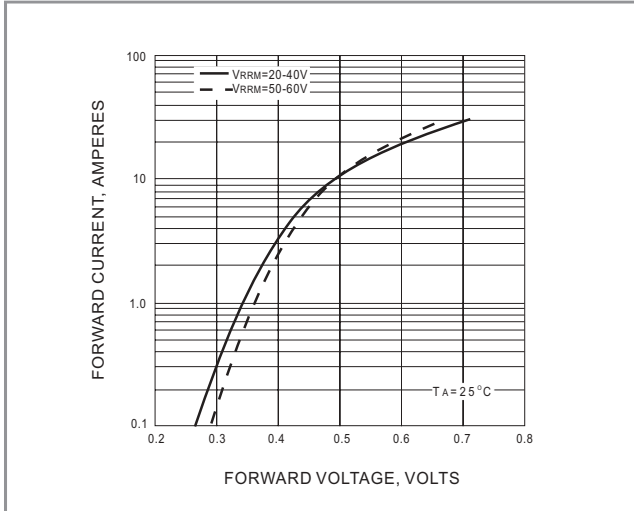


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

单击下面可查看定价，库存，交付和生命周期等信息

[>>Panjit\(强茂\)](#)