



DATA SHEET

SB1620FCT~SB16150FCT

ISOLATION SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 150 Volts **CURRENT** 16 Amperes

ITO-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

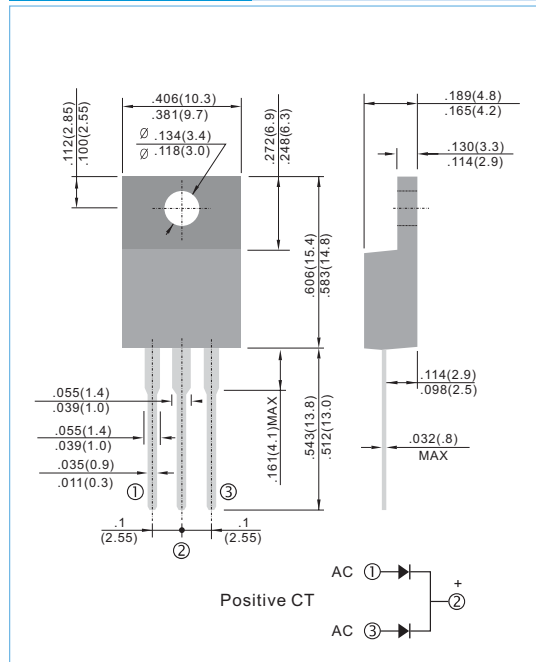
Case: ITO-220AB molded plastic package

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

Polarity: As marked.

Mounting Position: Any

Weight: 0.08 ounces, 2.24 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	SYMBOL	SB1620 FCT	SB1630 FCT	SB1640 FCT	SB1650 FCT	SB1660 FCT	SB1680 FCT	SB16100 FCT	SB1650 FCT	UNITS	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	V	
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	105	V	
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	V	
Maximum Average Forward Current .375"(9.5mm) lead length at $T_c = 90^\circ\text{C}$	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		0.92		V	
Maximum DC Reverse Current at $T_A=25^\circ\text{C}$ Rated DC Blocking Voltage $T_A=100^\circ\text{C}$	I_R					0.5 100					mA
Typical Thermal Resistance	$R_{\theta JC}$	2.0								$^\circ\text{C} / \text{W}$	
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-50 to +125								$^\circ\text{C}$	

NOTES:

Both Bonding and Chip structure are available.



RATING AND CHARACTERISTIC CURVES

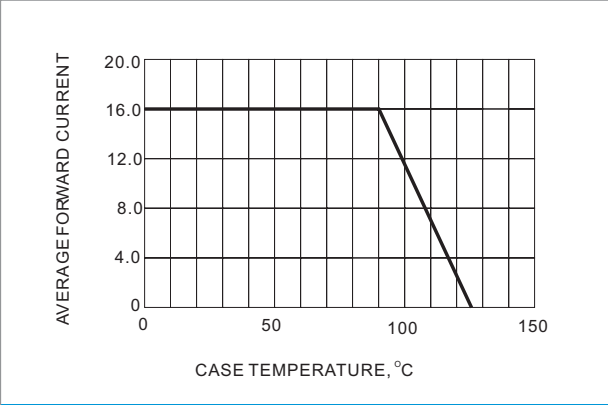


Fig. 1- FORWARD CURRENT DERATING CURVE

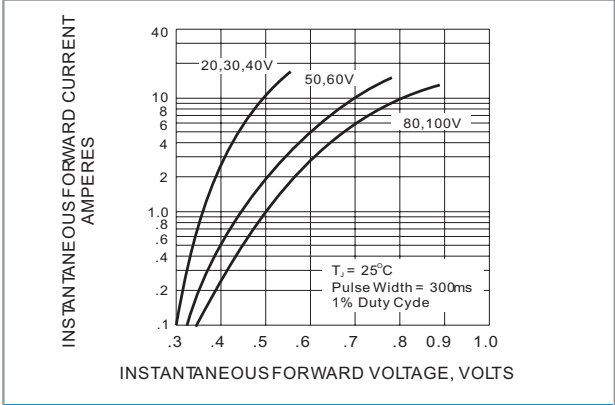


Fig. 2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

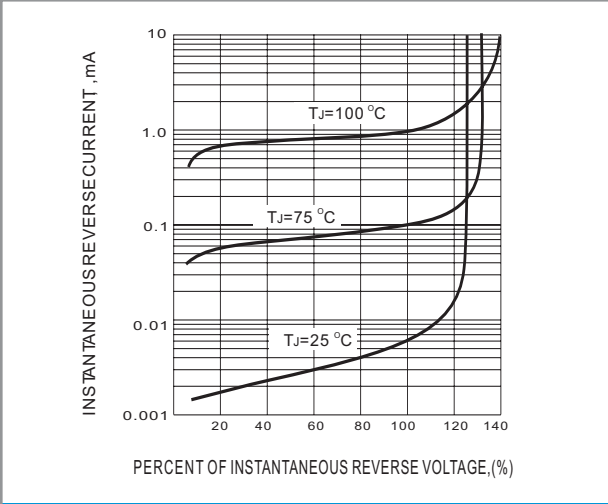


Fig. 3- TYPICAL REVERSE CHARACTERISTIC

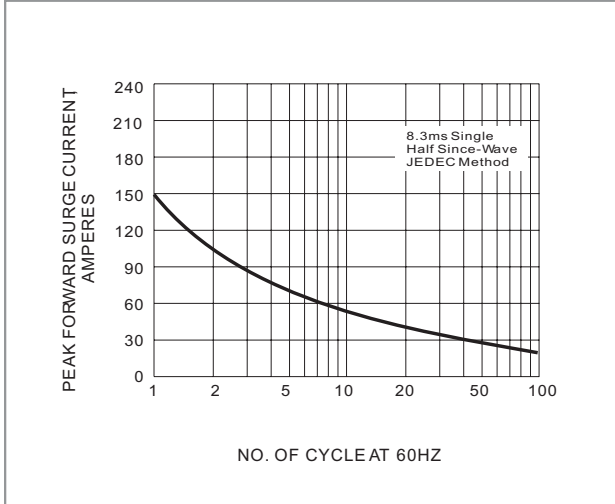


Fig. 4- MAXIMUM NON-REPETITIVE SURGE CURRENT