

DATA SHEET

Formosa MS

SB1620FCT~SB16100FCT

ISOLATION SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 100 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.

MECHANICAL DATA

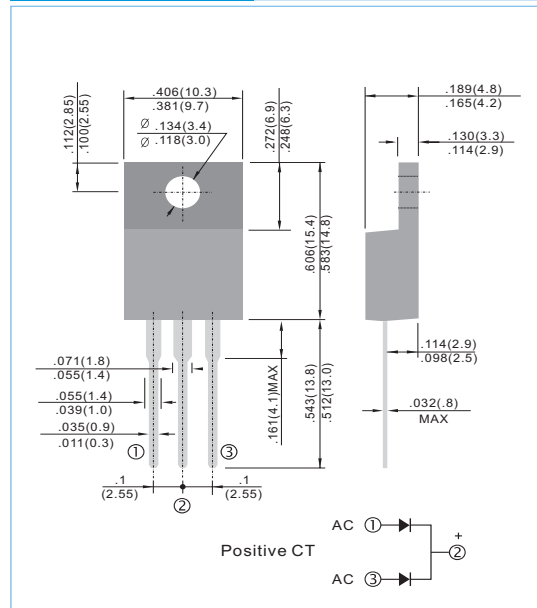
Case: ITO-220AB molded plastic package

Terminals: Lead solderable per MIL-STD-202, 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	SB1620FCT	SB1630FCT	SB1640FCT	SB1650FCT	SB1660FCT	SB1680FCT	SB16100FCT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Current .375"(9.5mm) lead length at T _c = 90°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		V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A =25°C Maximum DC Reverse Current at Rated DC Blocking Voltage T _A =100°C	I _R					0.5 100			mA
Typical Thermal Resistance	R _{θJC}	2.0							°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-50 TO +125							°C

RATING AND CHARACTERISTIC CURVES

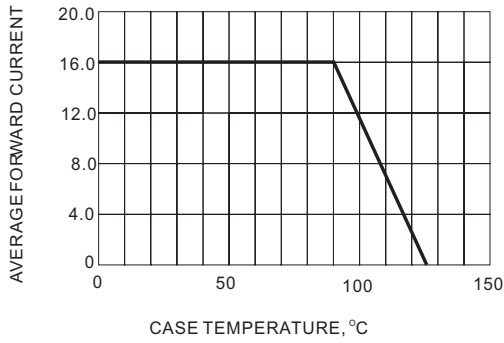


Fig.1- FORWARD CURRENT DERATING CURVE

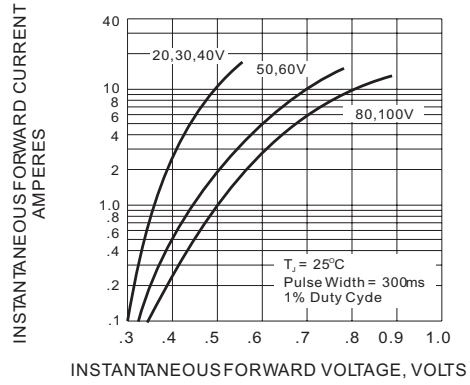


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

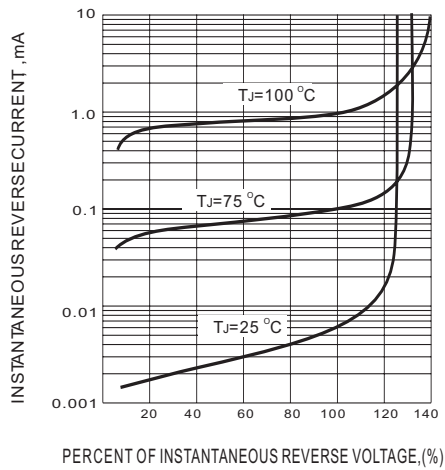


Fig.3- TYPICAL REVERSE CHARACTERISTIC

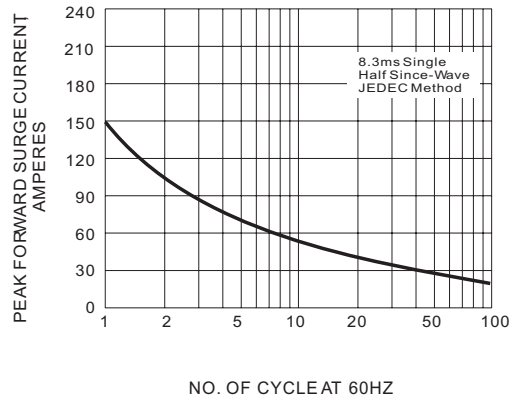


Fig.4- MAXIMUM NON - REPETITIVE SURGE CURRENT