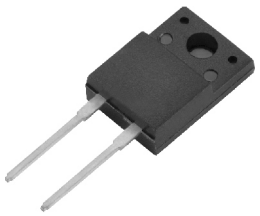
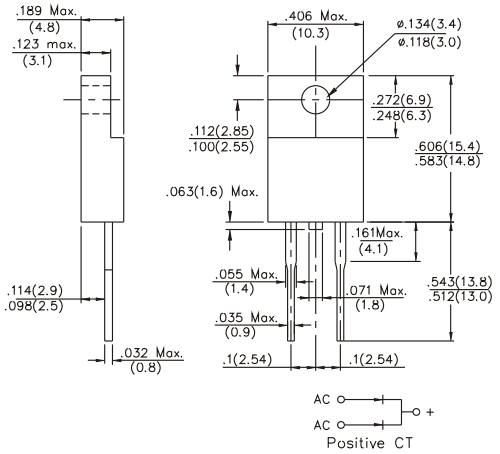
SB1020F thru SB10150F

SCHOTTKY BARRIER RECTIFIER

VOLTAGE - 20 TO 150 VOLTS CURRENT - 10 AMPERES



ITO-220AC



Dimensions in inches and (millimeters)

FEATURES

- Schottky Barrier Chip
- Guard Ring Transient Protection
- High Current Capability, Low Forward
- Low Reverse Leakage Current
- High surge Current Capability
- Plastic Material has UL Flammability Classification 94V-0
- High temperature soldering：260°C/10seconds at terminals
- Pb free product are available：99% Sn above can meet RoHS
- environment substance directive request

MECHANICAL DATA

Case：ITO220AC Molded plastic
Terminals：Plated Lead solderable per MIL-STD-202, Method 2026
Polarity：As Marked on Body
Mounting Position：Any
Weight：2.24gram
Marking：Type Number

MAXIMUM RATIXGS AND ELECTRICAL CHARACTERISTICS

Single phase half wave 60Hz, resistive or inductive load
For capacitive load, derate current by 20%

PARAMETER	SYMBOL	SB 1020F	SB 1030F	SB 1040F	SB 1050F	SB 1060F	SB 1080F	SB 10100F	SB 10150F	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	20	30	40	50	60	80	100	150	Volts
RMS Reverse Voltage	V_{RMS}	14	21	28	35	42	56	70	105	Volts
Average Repetitive Output Current @T_C=95°C	I_F	10								Amps
Non-Repetitive Peak Forward surge current 8.3ms Single Half Sine-Wave Superimosed on rated load (JEDEC Method)	I_{FSM}	150							120	Amps
Forward Voltage @I_F=10A	V_F	0.55			0.75		0.85		0.92	Volts
Peak Reverse Current @T_A=25°C AT Rated DC Blocking Voltage T_A=100°C	I_{RM}	0.1 50							0.025 7	mA
Typical Junction Capacitance (Note 1)	C_J	700								pF
Operating and Storage Temperature Range	T_J T_{STG}	-55 to +150								°C

NOTE：
1. Measured at 1.0MHz and applied reverse Voltage of 4.0V D.C

SCHOTTKY BARRIER RECTIFIER

RATINGS AND CHARACTERISTIC CURVES SB1020F THRU SB10150F

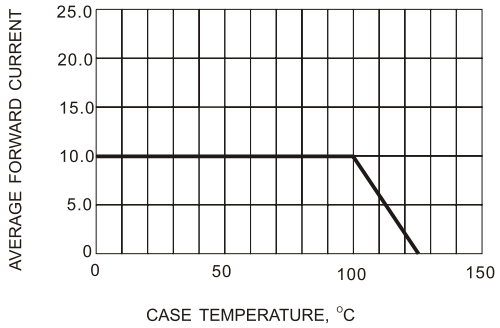


Fig.1- FORWARD CURRENT DERATING CURVE

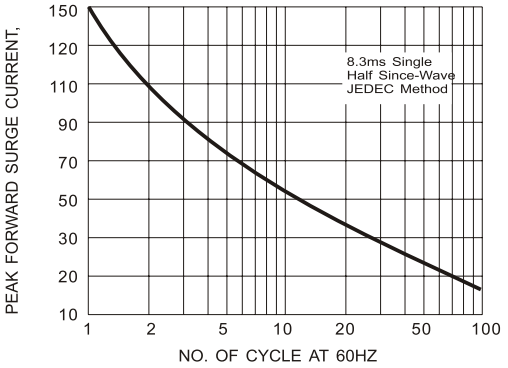


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

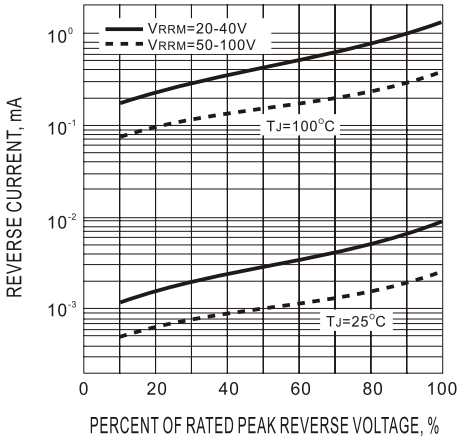


Fig.3- TYPICAL REVERSE CHARACTERISTIC

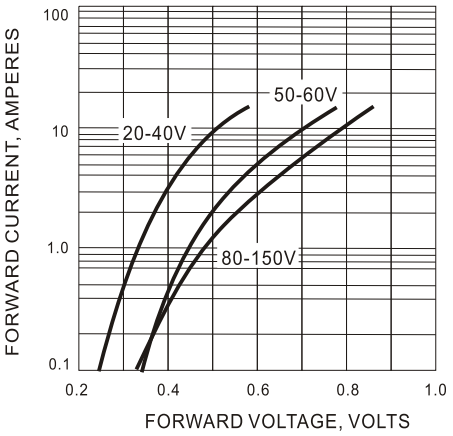


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHRACTERISTIC