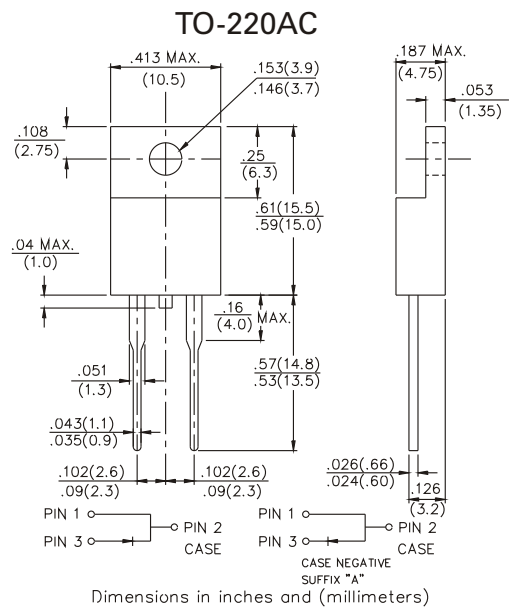
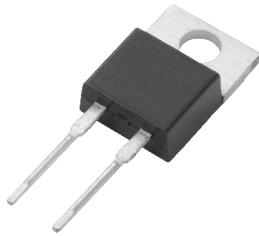


SB1020 thru SB10150

SCHOTTKY BARRIER RECTIFIER

VOLTAGE - 20 TO 150 VOLTS CURRENT - 10 AMPERES



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 : TO220AC Molded plastic
 Terminals : Lead solderable per MIL-STD-202, Method 2026
 Polarity : As Marked on Body
 Mounting Position : Any
 Weight : 2.24gram
 Marking : Type Number

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	SB 1020	SB 1030	SB 1040	SB 1050	SB 1060	SB 1080	SB 10100	SB 10150	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 @ $T_c=95^\circ\text{C}$	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 @ $I_F=10\text{A}$	V_F	0.55		0.75		0.85		0.92		Volts	
Peak Reverse Current @ $T_A=25^\circ\text{C}$ AT Rated DC Blocking Voltage $T_A=100^\circ\text{C}$	I_{RM}	0.5				50				0.1 7	mA
Typical Junction Capacitance (Note 1)	C_J	700								pF	
Operating and Storage Temperature Range	T_J T_{STG}	-55 to +150								$^\circ\text{C}$	

NOTE :

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

SB1020 thru SB10150

SCHOTTKY BARRIER RECTIFIER

RATINGS AND CHARACTERISTIC CURVES SB1020 THRU SB10150

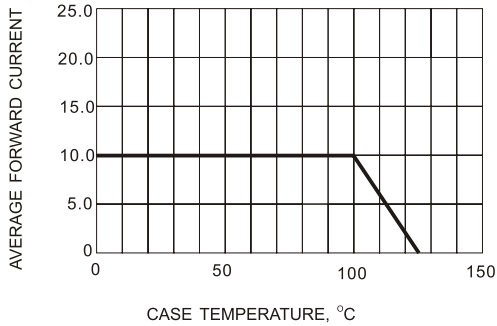


Fig.1- FORWARD CURRENT DERATING CURVE

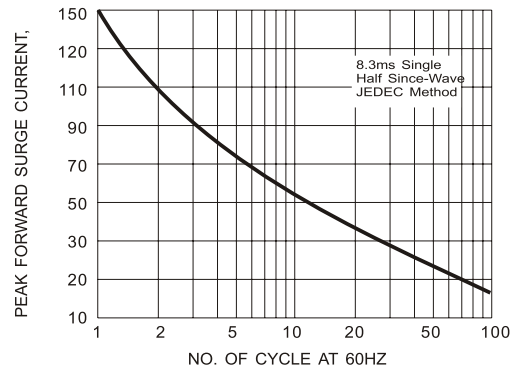


Fig.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

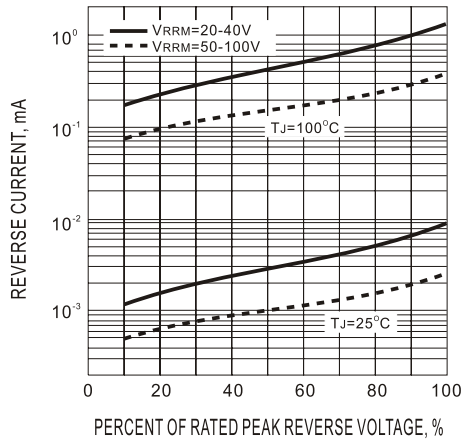


Fig.3- TYPICAL REVERSE CHARACTERISTIC

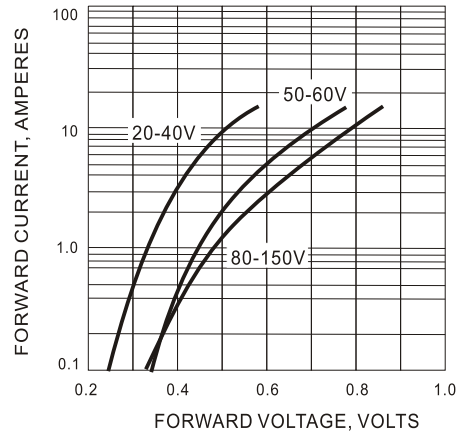


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC