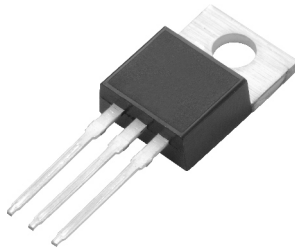


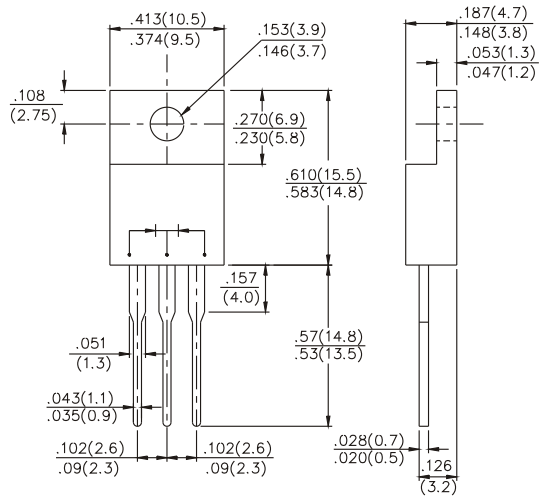
SB1020CT thru SB10150CT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE - 20 TO 150 VOLTS CURRENT - 10 AMPERES



TO-220AB



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 : TO220AB 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 1020CT	SB 1030CT	SB 1040CT	SB 1050CT	SB 1060CT	SB 1080CT	SB 10100CT	SB 10150CT	UNITS	
Peak Repetitive Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	Volts	
Working Peak Reverse Voltage DC Blocking Voltage	V_{RWM} V_R										
RMS Reverse Voltage	V_{RMS}	14	21	28	35	42	56	70	105	Volts	
Average Repetitive Output Current @ $T_c=95^\circ C$	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 @ $I_F=5.0A$	V_F	0.55		0.75		0.85		0.92		Volts	
Peak Reverse Current @ $T_A=25^\circ C$ AT Rated DC Blocking Voltage $T_A=100^\circ C$	I_{RM}	0.5				0.1				mA	
Typical Junction Capacitance (Note 1)	C_J	700								pF	
Operating and Storage Temperature Range	T_J T_{STG}	-55 to +150								$^\circ C$	

NOTE :

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

SB1020CT thru SB10150CT

SCHOTTKY BARRIER RECTIFIER

RATINGS AND CHARACTERISTIC CURVES SB1020CT THRU SB10150CT

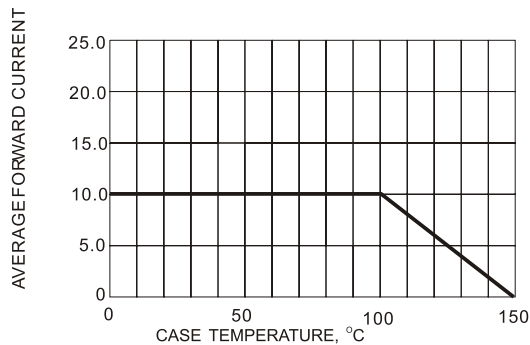


Fig.1- FORWARD CURRENT DERATING CURVE

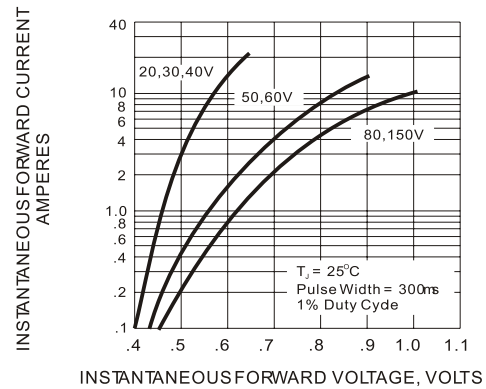


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

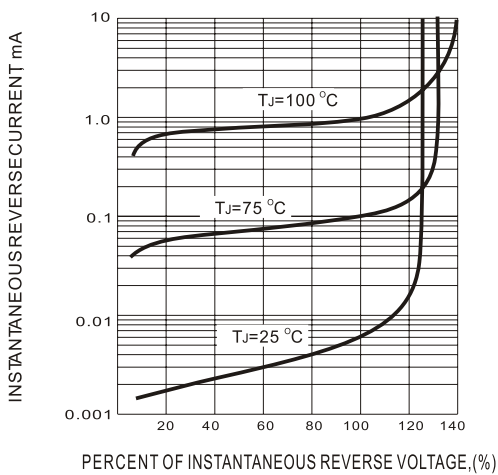


Fig.3- TYPICAL REVERSE CHARACTERISTIC

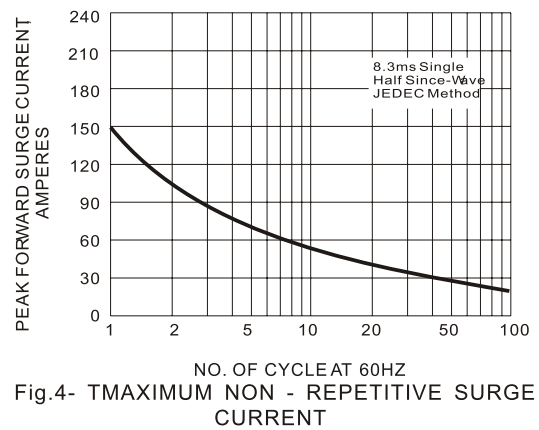


Fig.4- TMAXIMUM NON - REPETITIVE SURGE CURRENT

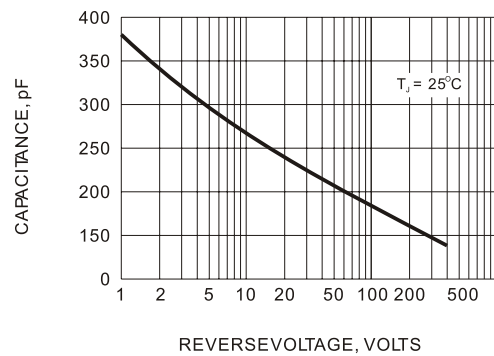


Fig.5- TYPICAL JUNCTION CAPACITANCE