



DATA SHEET

SEMICONDUCTOR

SB1020CT~SB10200CT

10A SCHOTTKY BARRIER RECTIFIER

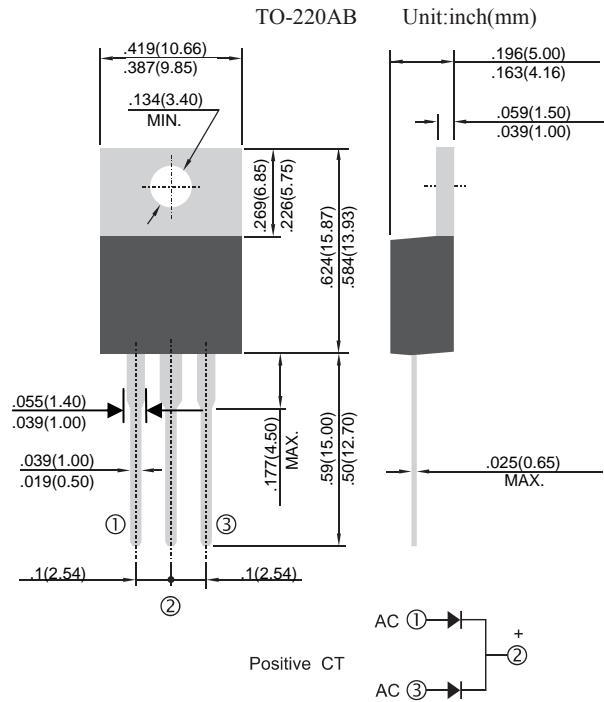


FEATURES

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

MECHANICAL DATA

- Case: TO-220AB Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-750, Method 2026
- Polarity: As Marked on Body
- Mounting Position: Any
- Marking: Type Number



Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic	Symbol	SB	SB	SB	SB	SB	SB	SB	SB	SB	Units
		1020CT	1030CT	1040CT	1050CT	1060CT	1080CT	10100CT	10150CT	10200CT	
Peak Repetitive Reverse Voltage	VRRM										Volts
Working Peak Reverse Voltage	VRWM	20	30	40	50	60	80	100	150	200	Volts
DC Blocking Voltage	VR										Volts
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	70	105	140	Volts
Average Rectified Output Current @TC = 95°C	IF	10									Amp
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150							120		Amps
Forward Voltage @IF = 5.0A	VF	0.55			0.75		0.85		0.90	0.95	Volts
Peak Reverse Current @TA = 25°C At Rated DC Blocking Voltage @TA = 100°C	IRM	0.5							0.1		mA
		50							7		
Typical Junction Capacitance (Note 1)	Cj	700									pF
Typical Thermal Resistance (per leg)	RθJc	4									°C /W
Operating and Storage Temperature Range	Tj, TSTG	-55 to +150									°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

DEVICE CHARACTERISTICS

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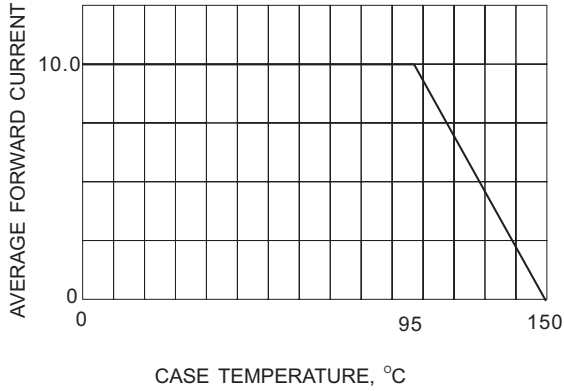


Fig.1- FORWARD CURRENT DERATING CURVE

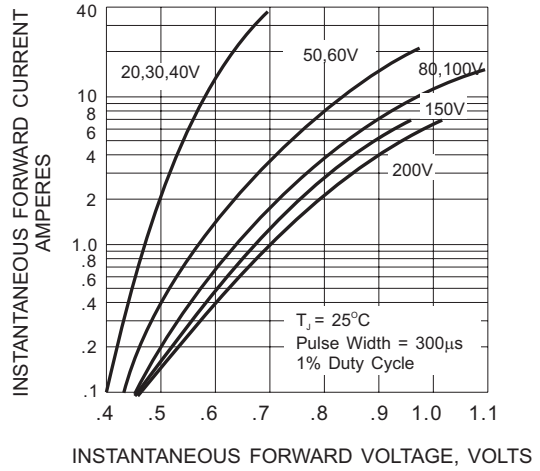


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

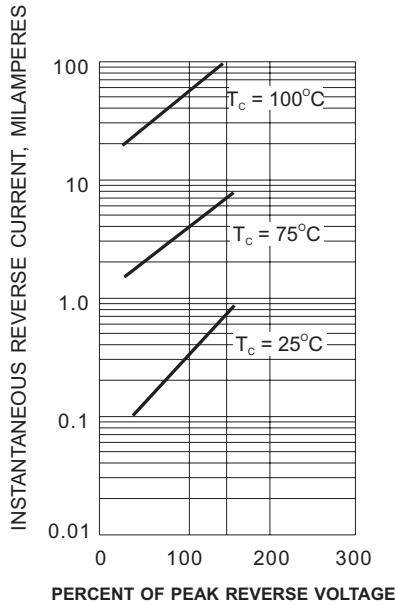


Fig.3- TYPICAL REVERSE CHARACTERISTIC

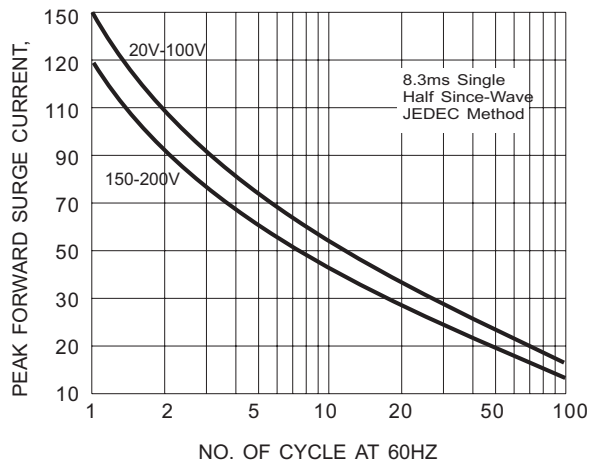


Fig.4- MAXIMUM NON-REPETITIVE SURGE CURRENT

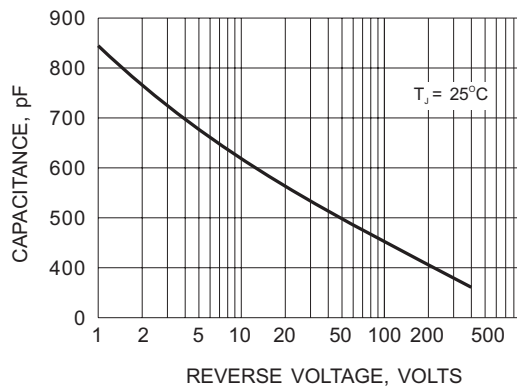
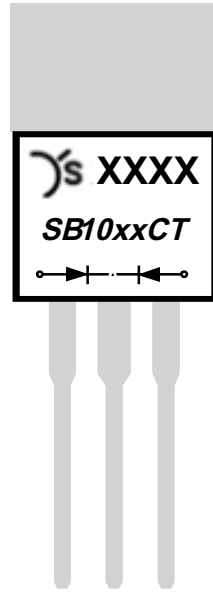


Fig.5- TYPICAL JUNCTION CAPACITANCE



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Marking Information



Line 1: YS Logo and Date code

The first half of Line 1: YS logo



The second half of Line 1:

YYWW: Year,

YYWW: Week.

Line 2 : Device name and Package type

SB : Schottky Barrier Rectifier


10xx: 10 Ampere Series product.

10xx: The peak reverse Voltage of product.

Line 3 : Device Structure symbol



TO/ITO220 包装规范

Packing 包装	Dimension 尺寸	Qty 数量	Picture 图示
Bag/Tube 袋/管装	527mm*33mm*7mm	50 PCS	
Inner box 内盒	555mm*140mm*55mm	2000 PCS	 <p>标签贴盒盖正面中心处</p>
Carton 外箱	575mm*285mm *155mm	8000 PCS	 <p>外箱两侧贴标签位置</p>