



DATA SHEET

SEMICONDUCTOR

SB1020~SB10200

10A SCHOTTKY BARRIER RECTIFIER

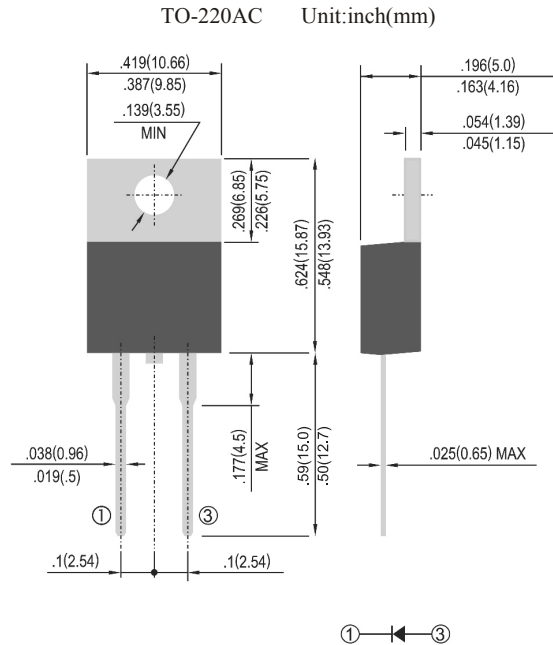


FEATURES

- 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-220AC Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-750, Method 2026
- Polarity: As Marked on Body
- Weight: 2.24 grams (approx.)
- 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 1020	SB 1030	SB 1040	SB 1050	SB 1060	SB 1080	SB 10100	SB 10150	SB 10200	Units
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									Amps
Forward Voltage @IF = 10 A	VF	0.55			0.75		0.85	0.90	99		Volts
Peak Reverse Current @TA = 25°C At Rated DC Blocking Voltage @TA = 100°C	IRM	0.5mA 50 mA						0.1 mA 7 mA			mA
Typical Junction Capacitance (Note 1)	Cj	700									pF
Operating and Storage Temperature Range	Tj, TSTG	-55 to +150									

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

DEVICE CHARACTERISTICS

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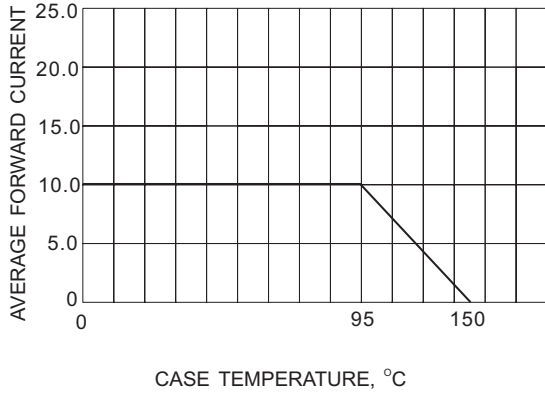


Fig.1- FORWARD CURRENT DERATING CURVE

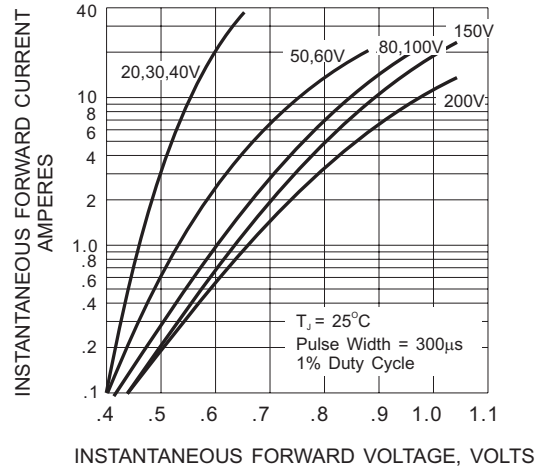


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

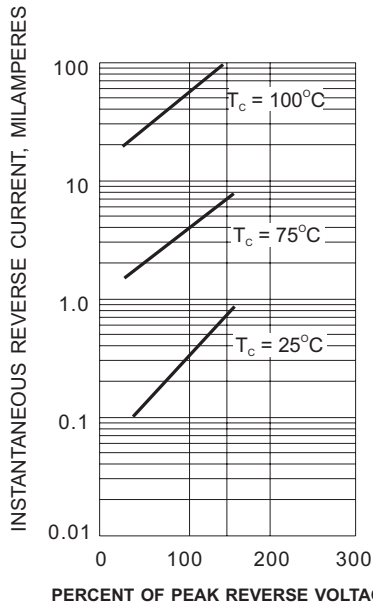


Fig.3- TYPICAL REVERSE CHARACTERISTIC

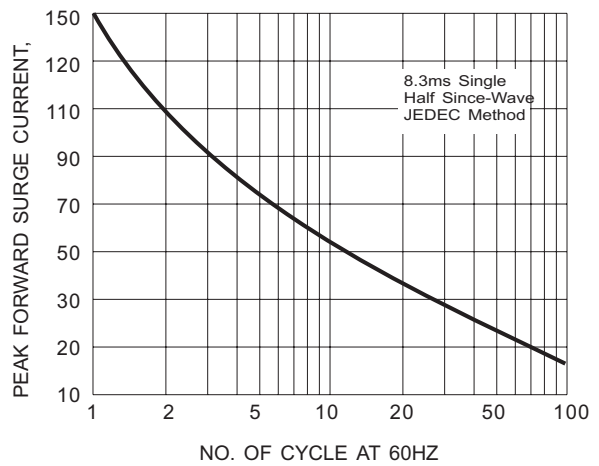


Fig.4- MAXIMUM NON-REPETITIVE SURGE CURRENT

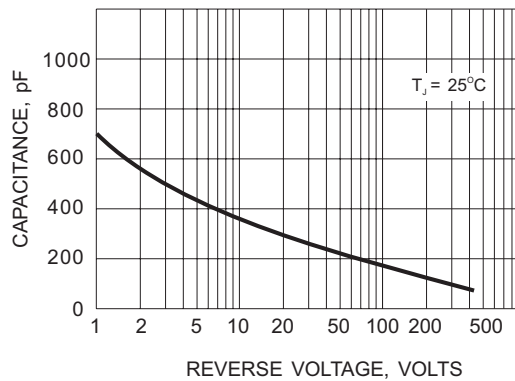


Fig.5- TYPICAL JUNCTION CAPACITANCE



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>