

SB120 THRU SB1100

Schottky Barrier Rectifier

Features

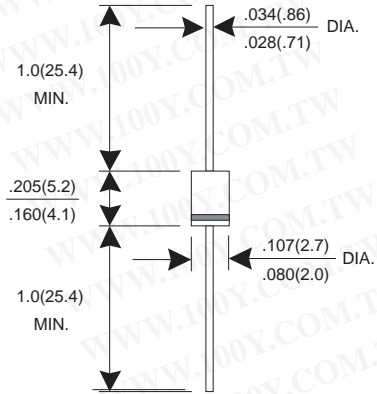
- ★ Low forward voltage drop
- ★ High current capability
- ★ High reliability
- ★ High surge current capability

Mechanical Data

- ★ Case: Molded plastic DO-41
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Terminals: Solderable per MIL-STD-202 method 208
- ★ Polarity: Color band denotes cathode end
- ★ Mounting position: Any
- ★ Weight: 0.34 gram

Voltage Range 20 to 100 V
Current 1.0 Ampere

DO-41



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
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CHARACTERISTIC	SYMBOL	SB120	SB140	SB160	SB180	SB1100	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	20	40	60	80	100	V
Maximum RMS Voltage	VRMS	14	28	42	56	70	V
Maximum DC Blocking Voltage	VDC	20	40	60	80	100	V
Maximum Average Forward Rectified Current TL=100°C	I(AV)	1.0					A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30					A
Maximum Instantaneous Forward Voltage @ 1.0 A	VF	0.5		0.7		0.85	V
Maximum DC Reverse Current @TJ=25°C At Rated DC Blocking Voltage @TJ=100°C	IR	0.5			5.0		mA
		10					
Max thermal resistance junction to lead	Rthj-l	15					°C/W
Max thermal resistance junction to ambient	Rthj-a	50					°C/W
Typical junction Capacitance (Note 1)	CJ	120					pF
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to +125 / -55 to +150					°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

RATINGS AND CHARACTERISTIC CURVES SB120 THRU SB1100

FIG.1 - FORWARD CURRENT DERATING CURVE

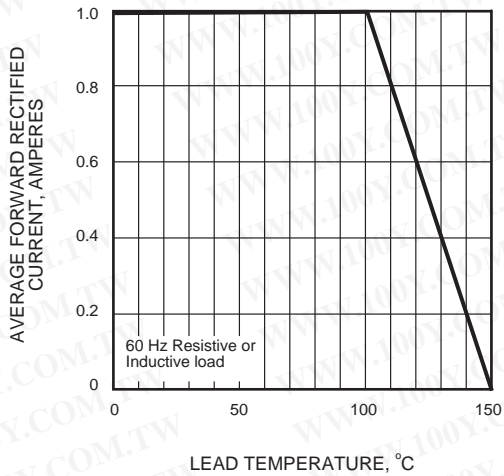


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

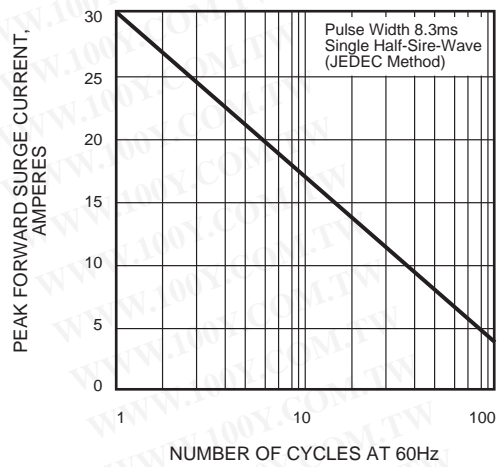


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

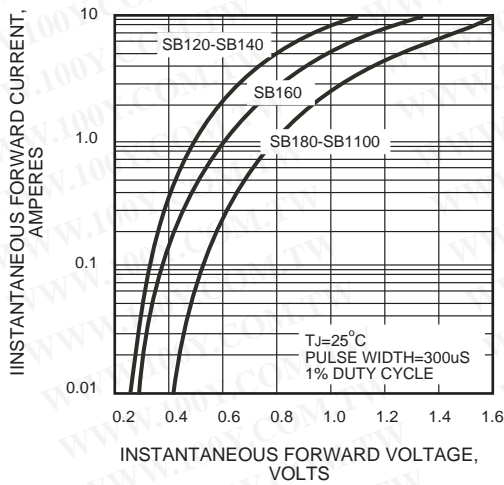


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

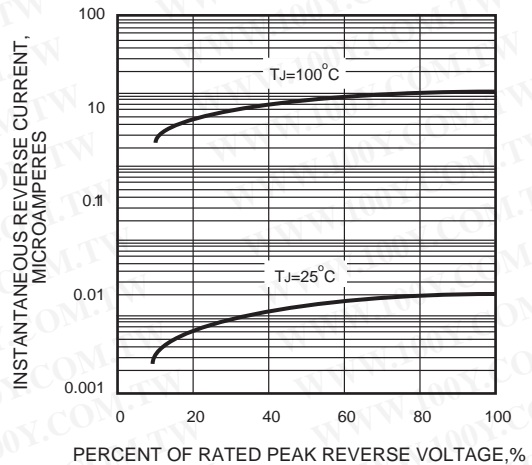
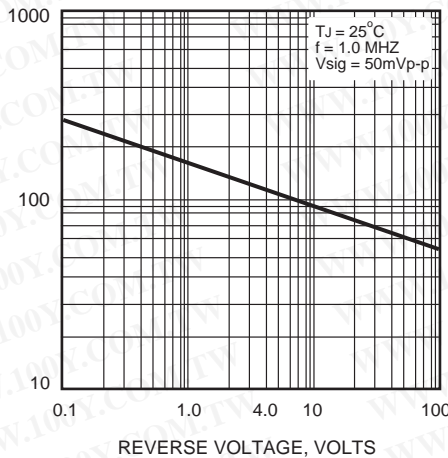


FIG.5 - TYPICAL JUNCTION CAPACITANCE



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