


## 20 AMPS SCHOTTKY BARRIER RECTIFIER

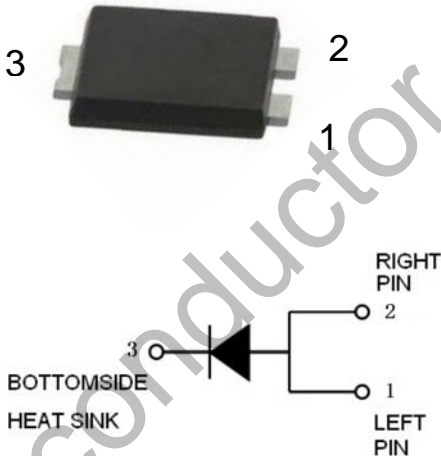



**SB20100L**

Features:

- High current capacity, low forward voltage.
- Excellent high temperature stability.
- High forward surge capacity.
- RoHS compliant, and Halogen free.

TO-277





**Absolute Maximum Ratings** (Ta=25°C unless otherwise noted)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Recurrent Peak Reverse Voltage	$V_{RRM}$	$I_R=0.1mA$	100	-	-	V
Average Forward Current	$I_{F(AV)}$	$V_R=100V@T_j=25^\circ C$	-	20	-	A
Peak Forward Surge Current, 8.3ms single half sine-wave	$I_{FSM}$	$V_R=100V@T_j=25^\circ C$	-	-	200	A
Forward Voltage(Note1)	$V_F$	$I_F=20A$	-	0.76	0.85	V
Reverse Leakage Current(Note1)	$I_R$	$V_R=100V@T_j=25^\circ C$	-	-	0.1	mA
		$V_R=100V@T_j=100^\circ C$	-	-	20	
Operating Junction Temperature	$T_j$	-	-	-	175	°C
Storage Temperature Range	$T_{stg}$	-	-40	-	175	
Thermal Resistance(Note2)	$R_{th(JA)}$	-	-	31	-	°C/W

Note 1: Pulse test width PW=300usec. 1%duty cycle

Note 2: Polymide PCB, 2oz. copper. Cathode pad dimensions 18.8\*14.4mm. Anode pad dimensions 5.6\*14.1mm

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Typical Characteristics

RATING AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

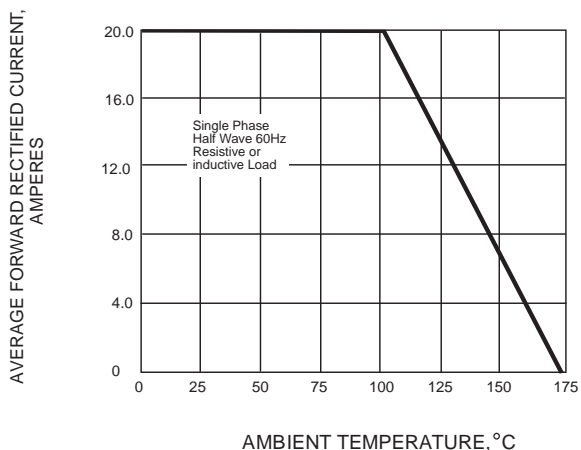


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

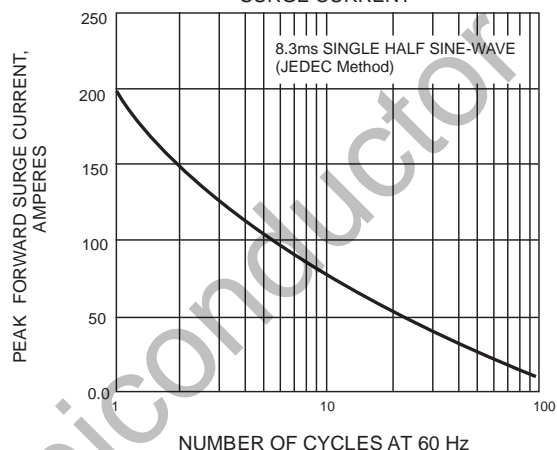


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

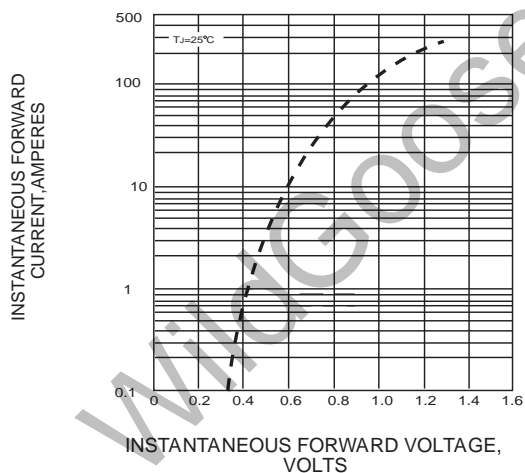
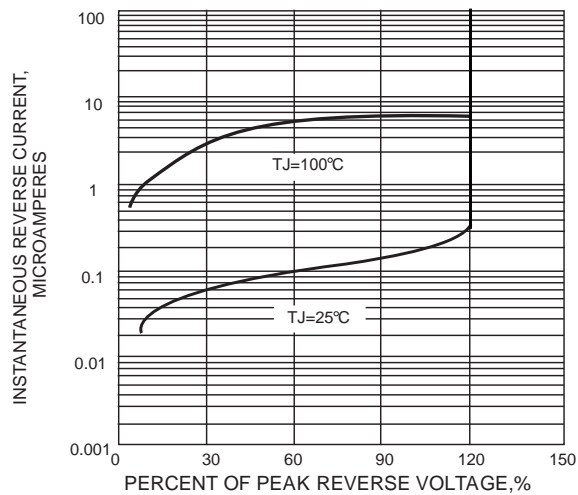


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

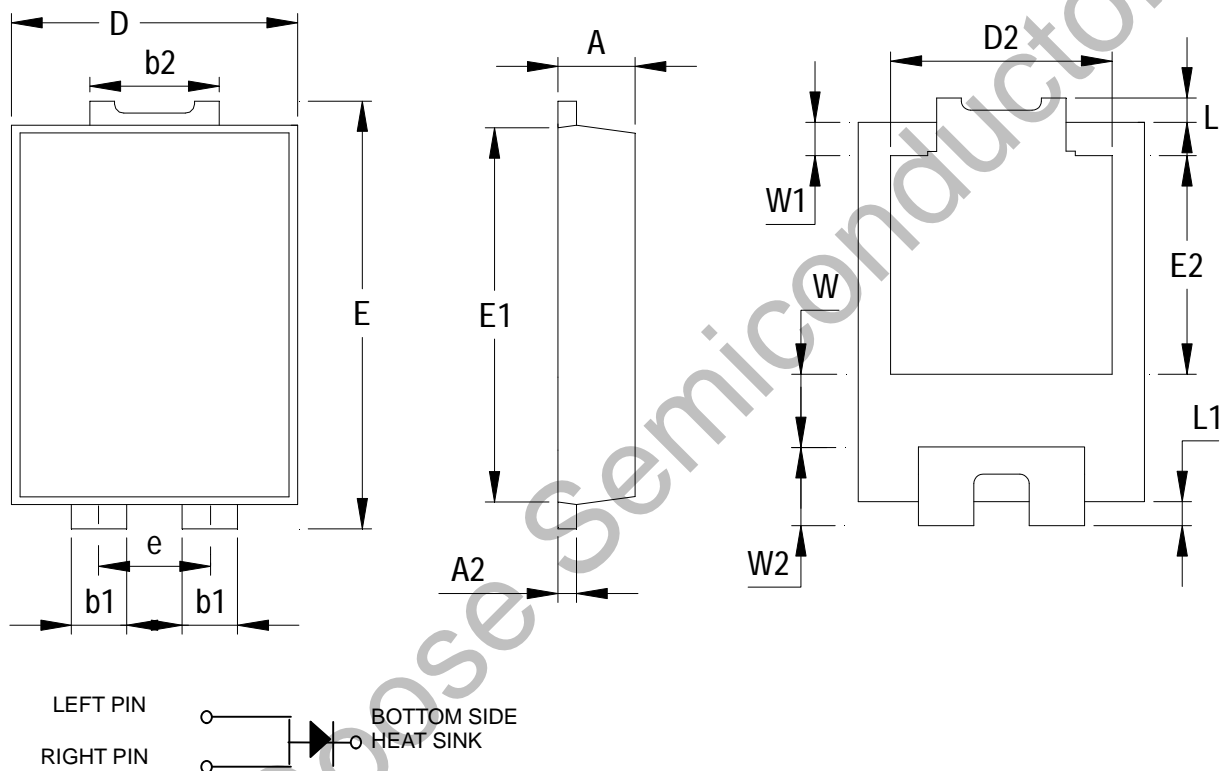


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**Package Dimension**

TO-277

Units: mm



NO	Dimensions	NO	Dimensions
A	1.25±0.05	e	1.8Typ
A2	0.30±0.02	E1	6.25±0.05
b1	0.9±0.05	E2	3.6±0.2
b2	2.1±0.05	L/L1	0.4±0.05
D	4.65±0.05	W	1.2±0.2
D2	3.60Typ	W1	0.55±0.15
E	7.05±0.1	W2	1.3±0.2
<b>All Dimensions in mm</b>			

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