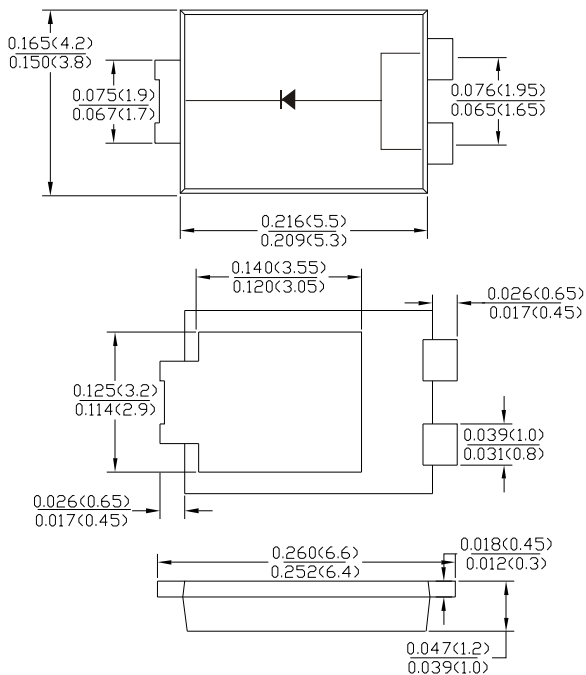




# SB1045L THRU SB10150L

## 10.0A Surface Mount Schottky Barrier Rectifiers

### T0-277



### Features

- Schottky Barrier Chip
- High Thermal Reliability
- Patented Super Barrier Rectifier Technology
- High Forward Surge Capability
- Ultra Low Power Loss, High Efficiency
- Excellent High Temperature Stability
- Plastic material-UL flammability 94V-0

### Mechanical Data

- Case: T0-277, molded plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS/Lead Free Version

### Maximum Ratings and Electrical Characteristics @T<sub>A</sub> =25 °C unless otherwise specified

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

Parameter	Symbol	SB 1045L	SB 1050L	SB 1060L	SB 1080L	SB 10100L	SB 10150L	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>							
Working Peak Reverse Voltage	V <sub>RWM</sub>	45	50	60	80	100	150	V
DC blocking voltage	V <sub>DC</sub>							
RMS Rectified Voltage	V <sub>R(RMS)</sub>	32	35	42	56	70	105	V
Average Rectified Output Current (Note1)	I <sub>o</sub>	10						A
Non-Repetitive Peak Forward Surge 8.3ms								
Single Half Sine-Wave Superimposed on rated load (JEDEC Method) (Note2)	I <sub>FSM</sub>	150						A
Forward Voltage Drop T <sub>A</sub> =25 °C @IF=10A	V <sub>FM</sub>	0.55	0.6	0.75	0.78			V
Peak Reverse Current T <sub>A</sub> =25°C	I <sub>r</sub>	0.3						mA
At Rated DC Blocking Voltage T <sub>A</sub> =100°C		15						
Typical Thermal Resistance Junction to Ambient	R <sub>θJA</sub> R <sub>θJL</sub>	80 15						°C/W
Operating junction temperature range	T <sub>J</sub>	-55 to +150						
storage temperature range	T <sub>STG</sub>	-55 to +150						°C

Note: 1. Valid Provided that are kept at ambient temperature at a distance of 9.5mm from the case.

2. Fr-4pcb.2oz. Copper, minimum recommend pad layout .18.8mm×14.4. Anode pad dimensions 5.6mm×14.4mm.



# RATINGS AND CHARACTERISTIC CURVES SB1045L THRU SB10150L

Fig.1 - Forward Current Derating Curve

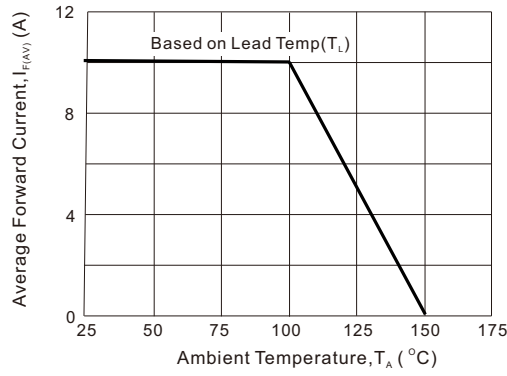


Fig2 : Instantaneous Forward Voltage

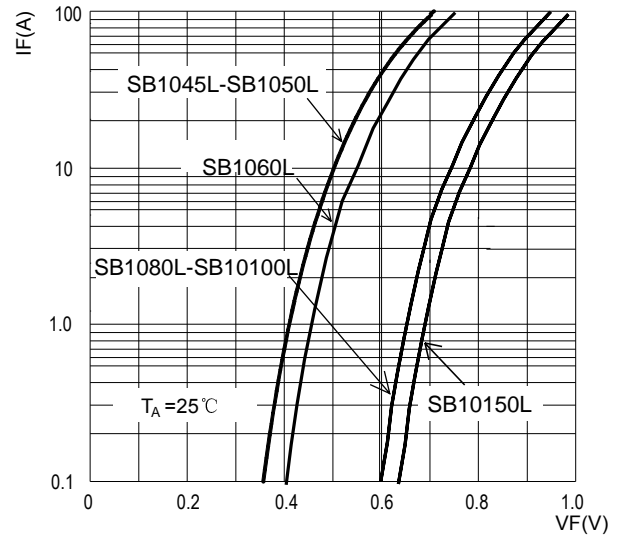


Fig3: Surge Forward Current Capacity

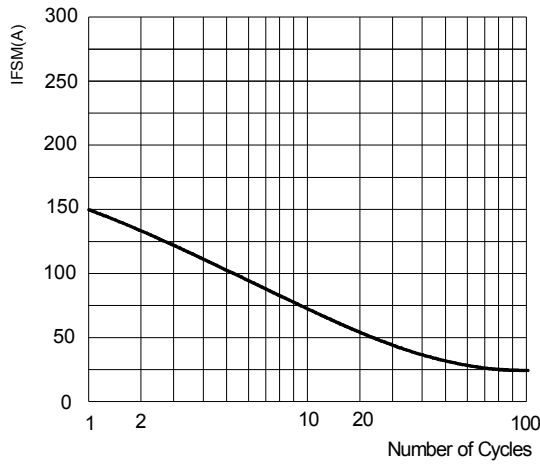
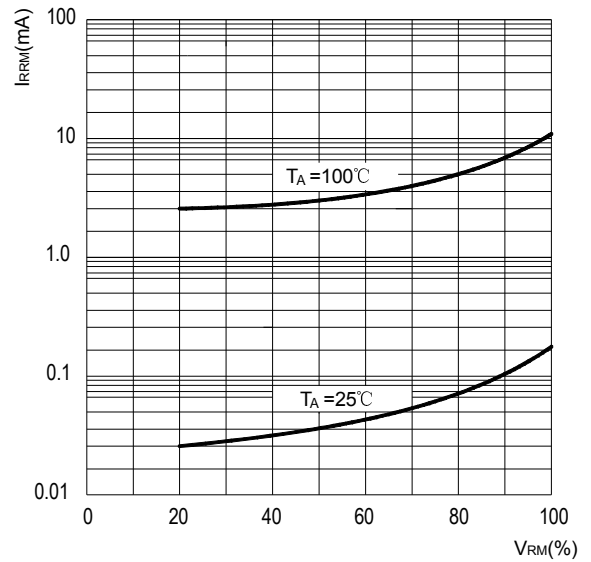


Fig4: Typical Reverse Characteristics



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考!)



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