

Features

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

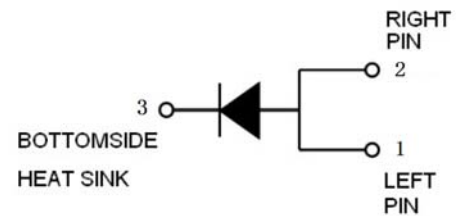
TO-277

ROHS
COMPLIANT



Mechanical Data

- **Case** : JEDEC TO-277 Molded plastic body
- **Terminals** :Plated Leads Solderable per MIL-STD-202,Method 208
- **Polarity** : Polarity symbol marking on body
- **Mounting Position** : Any
- **Weight** : 0.003 ounce, 0.092 grams



Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter	SYMBOLS	SB1045L	SB1050L	SB1060L	SB1080L	SB10100L	SB10150L	UNIT
Marking Code		SB1045L	SB1050L	SB1060L	SB1080L	SB10100L	SB10150L	
Maximum repetitive peak reverse voltage	V_{RRM}	45	50	60	80	100	150	V
Maximum working peak reverse voltage	V_{RWM}							
Maximum DC blocking voltage	V_{DC}							
RMS Reverse voltage	V_{RMS}	32	35	42	56	70	105	V
Average Rectified Output Current	$I_{(O)}$	10						A
Non-Repetitive Peak Forward Surge 8.3ms Single Half Sine-Wave Superimposed on rated load(JEDEC Method)	I_{FSM}	150						A
Forward Voltage Drop at 10.0A $T_A=25^{\circ}C$	V_F	0.55	0.70	0.85	0.95			V
Peak reverse curent at rated DC blocking voltage $T_A=25^{\circ}C$ $T_A=125^{\circ}C$	I_R	0.3 15						mA
Typical thermal resistance Junctionto Ambient	$R_{\theta JA}$ $R_{\theta JL}$	80 15						$^{\circ}C/W$
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150						$^{\circ}C$

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×14.4m.

Typical Characteristics

Fig.1 - Forward Current Derating Curve

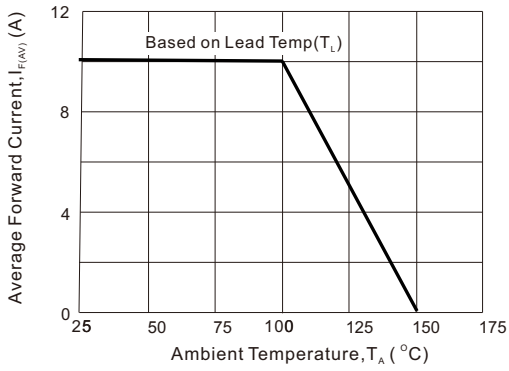


Fig2 : Instantaneous Forward Voltage

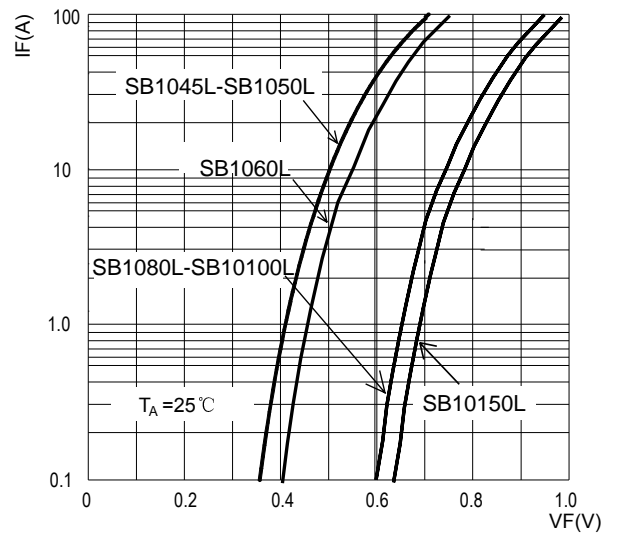


Fig3: Surge Forward Current Capability

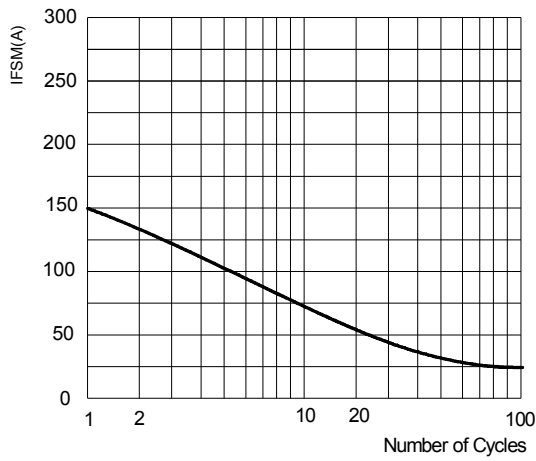
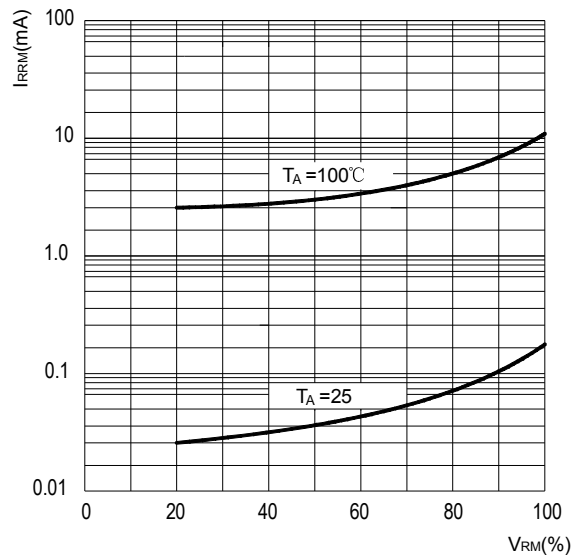
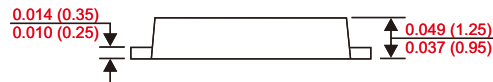
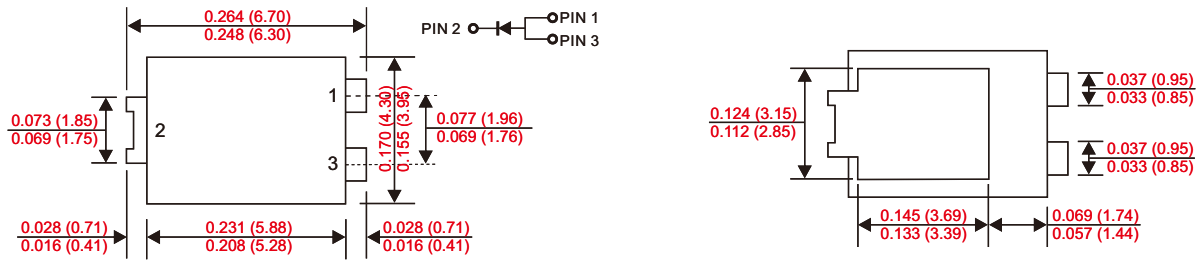


Fig4: Typical Reverse Characteristics



Package Dimension

TO-277



Dimensions in inches and (millimeters)