

SB1045L THRU SB10100L

10 0A Surface Mount Schottky Barrier Rectifiers

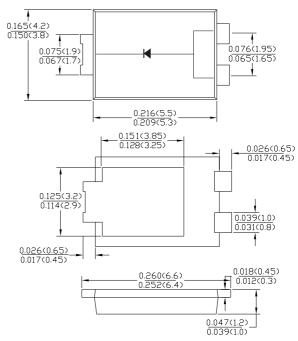
Features

- · 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

Mechanical Data

- · Case: TO-277B, 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

TO-277B



dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics @T_A =25 ℃ unless otherwise specified

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

Parameter		Symbol	SB1045L	SB1050L	SB1060L	SB1080L	SB10100L	Unit
Peak Repetitive Reverse Voltage		V_{RRM}						
Working Peak Reverse Voltage		V_{RWM}	45	50	60	80	100	V
DC blocking voltage		V_{DC}						
RMS Rectified Voltage		$V_{R(RMS)}$	32	35	42	56	70	V
Average Rectified Output Current	(Note1)	IF(AV)	10				Α	
Non-Repetitive Peak Forward Surge8.3ms			150					
Single Half Sine-Wave Superimposed on rated		İfsm						Α
load(JEDEC Method)	(Note2)							
I ² t Rating for Fusing (t < 8.3ms)		l²t	93.375					A ² s
Forward Voltage Drop T _A =25 °C @IF=10A		Vғм		0.50	0.55	0.7	' 5	V
	T _A =25°C T _A =100°C	lR	0.3 15			mA		
Typical Thermal Resistance		Rеја	80					°C/W
Junctionto Ambient		Rejl	15					
Operating junction temperature range		TJ	-55 to +150					°C
storage temperature range		Тѕтс	-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.

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Fig.1 - Forward Current Derating Curve

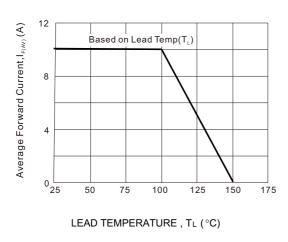


Fig3: Surge Forward Current Capadility

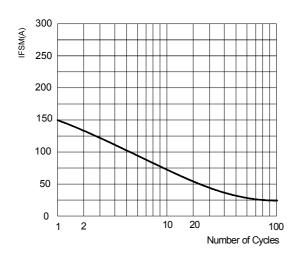


FIG.5 MOUNTING PAD LAYOUT

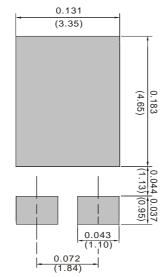


Fig2: Instantaneous Forward Voltage

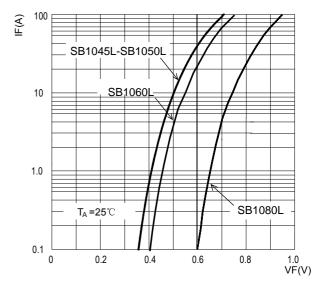
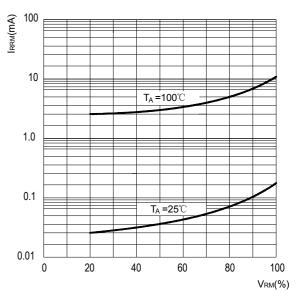


Fig4: Typical Reverse Characteristics





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