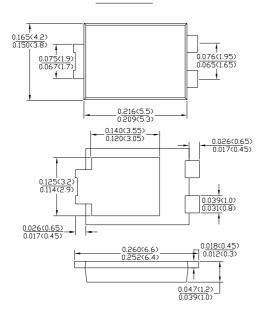


SB1045L

10.0A SCHOTTKY BARRIER RECTIFIER

T0-277



Dimiensions inches and (milimenters)

Features

- Bypass Diodes for Solar Panels
- Maximum Junction Temperture 200°C
- High Thermal Reliability
- Patented Super Barrier Rectifier Technology
- High Foward Surge Capability
- Ultra Low Power Loss, High Efficiency
- Excellent High Temperature Stability

Mechanical Data

- Case:TO-277 Molded Plastic "Green" Molding Compound
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.093 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS/Lead Free Version

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

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

Characteristic	Symbol	SB1045L	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	45	٧
RMS Reverse Voltage	VR(RMS)	32	٧
Average Rectified Output Current (Note 1)	lo	10.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I FSM	150	Α
Forward Voltage Drop @I _F = 10A,Tj = 25°C	VFM	0.53	V
Peak Reverse Current $@V_F = 45V$, $Tj = 25^{\circ}C$ At Rated DC Blocking Voltage $@V_F = 45V$, $Tj = 100^{\circ}C$	I RM	0.3 15	mA
Typical Thermal Resistance Junction to Ambient (Note 2) (Note 3)	$R_{ hetaJA}$	73 31	°C/W
Operating Temperature Range $@V_R \le 80\% V_{RRM}$ DC Forward Mode	Tj	-55 to +150	°C
Storage Temperature Range	Тѕтс	-55 to +150	°C

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

- 2. FR-4 PCB, 2oz. Copper, minimum recommended pad layout .
- 3. Polymide PCB, 2oz. Copper. Cathode pad dimensions 18.8mm x 14.4mm. Anode pad dimensions 5.6mm x 14.4mm.



10.0A SCHOTTKY BARRIER RECTIFIER SB1045L

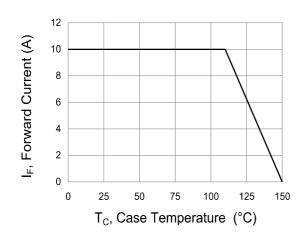
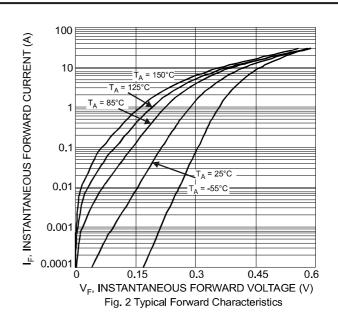


Fig. 1 Forward Power Dissipation



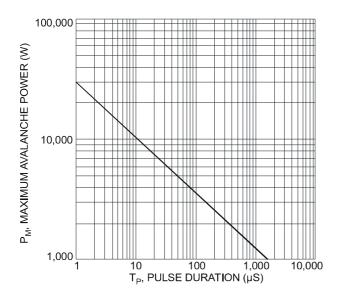


Fig. 4 Maximum Avalanche Power

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

