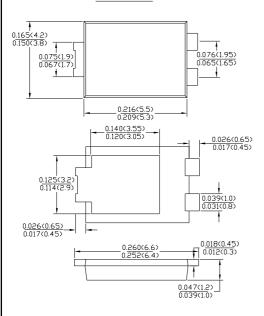


# SB1545L

#### 15.0A SCHOTTKY BARRIER RECTIFIER

## T0-277



Dimiensions inches and (milimenters)

#### **Features**

- Schottky Barrier Chip
- 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

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 @TA=25°C unless otherwise specified

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

Characteristic	Symbol	SB1545L	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	45	V
RMS Reverse Voltage	VR(RMS)	28	V
Average Rectified Output Current (Note 1) @T <sub>L</sub> = 90°C	lo	15.0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) $@T_L = 75^{\circ}C$	IFSM	275	А
Forward Voltage Drop @I <sub>F</sub> = 15A,Tj = 25°C	VFM	0.55	V
Peak Reverse Current $@V_F = 45V$ , $Tj = 25^{\circ}C$ At Rated DC Blocking Voltage $@V_F = 45V$ , $Tj = 100^{\circ}C$	İRM	0.3 15	mA
Typical Thermal Resistance Junction to Ambient	$R_{ hetaJA}$ $R_{ hetaJL}$	80 15	°C/W
Operating Temperature Range	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.



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Fig.1 - Forward Current Derating Curve

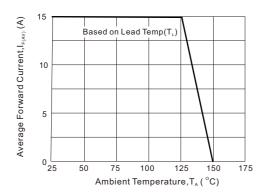


Fig2: Instantaneous Forward Voltage

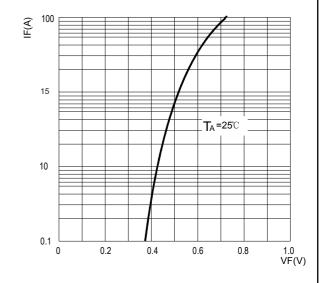


Fig3: Surge Forward Current Capadility

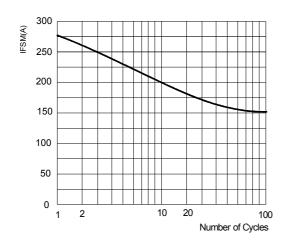
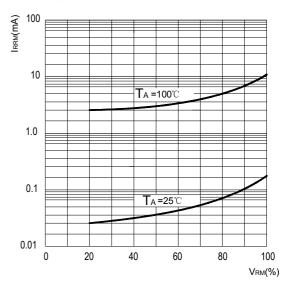


Fig4: Typical Reverse Characteristics



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

