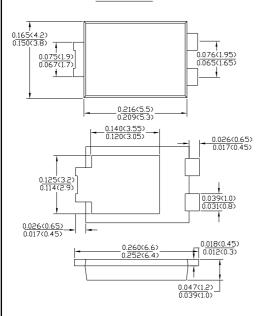


SL1545

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	SL1545	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 _L = 90°C	lo	15.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) @T _L = 75°C	IFSM	275	А
Forward Voltage Drop $@I_F = 15A,Tj = 25^{\circ}C$	VFM	0.47	V
Peak Reverse Current $@V_F = 45V$, $Tj = 25^{\circ}C$ At Rated DC Blocking Voltage $@V_F = 45V$, $Tj = 100^{\circ}C$	IRM	0.3 15	mA
Typical Thermal Resistance Junction to Ambient	R _{θJA} R _{θJL}	80 15	°C/W
Operating Temperature Range	Тj	-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

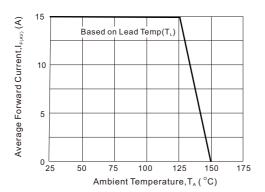


Fig2: Instantaneous Forward Voltage

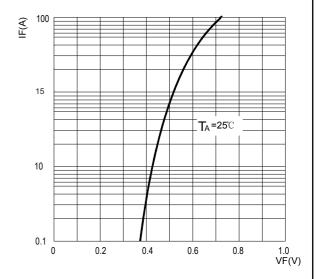


Fig3: Surge Forward Current Capadility

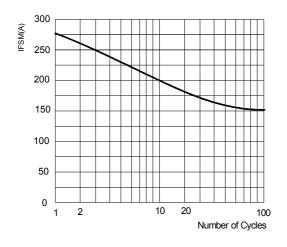


Fig4: Typical Reverse Characteristics

