

SR1045L SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE: 45V CURRENT: 10 A

Features

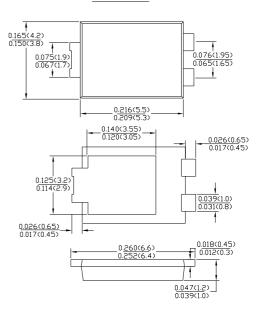
- Bypass Diodes for Solar Panels
- Maximum Junction Temperture 200°C
- High Thermal Reliability
- Patented Super Barrier Rectifier Technology
- High Foward Surge Capability
- Ultra Low Power Loss, High Efficiency
- Excellent High Temperature Stability

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: AnyMarking: Type Number
- Lead Free: For RoHS/Lead Free Version



T0-277



$\textbf{Maximum Ratings and Electrical Characteristics} \ @\textit{T}_{A} = 25 ^{\circ}\textit{C} \ unless \ otherwise \ specified$

Characteristic	Symbol	SR1045L	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	45	V
RMS Reverse Voltage	VR(RMS)	32	V
Average Rectified Output Current (Note 1)	lo	10.0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	 FSM	150	А
Forward Voltage Drop @I _F = 10A,Tj = 25°C	VFM	0.53	V
Peak Reverse Current $@V_F = 45V$, Tj = 25°C $@V_F = 45V$, Tj = 100°C	lгм	0.3 15	mA
Typical Thermal Resistance Junction to Ambient (Note 2) (Note 3)	R_{0JA}	73 31	°C/W
Operating Temperature Range $@V_R \le 80\% V_{RRM}$ DC Forward Mode	Тј	-55 to +150	°C
Storage Temperature Range	Тsтg	-55 to +15	°C



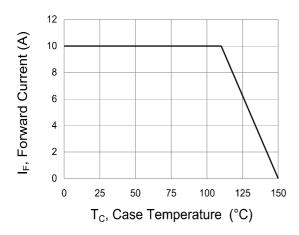


Fig. 1 Forward Power Dissipation

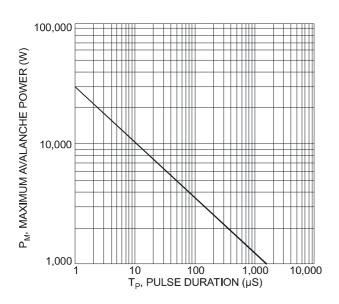


Fig. 3 Maximum Avalanche Power

