



SR1545L THRU SR15150L

15 0A Surface Mount Schottky Barrier Rectifiers

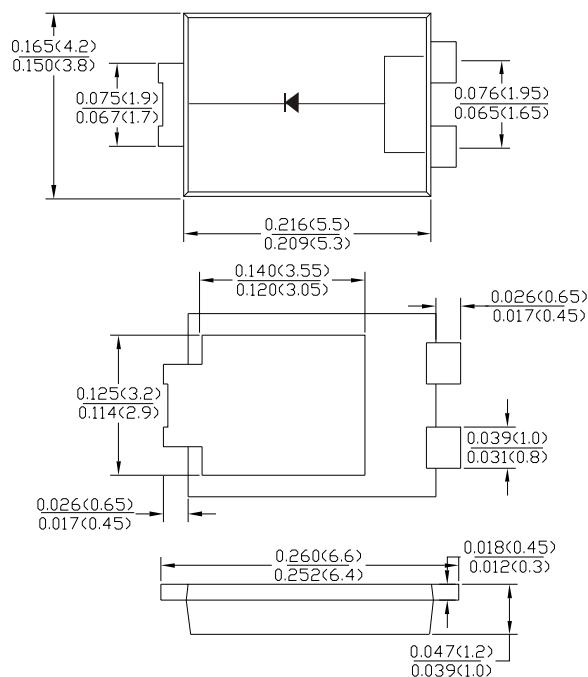
Features

- Schottky Barrier Chip
- High Thermal Reliability
- Patented Super Barrier Rectifier Technology
- High Forward Surge Capability
- Ultra Low Power Loss, High Efficiency
- Excellent High Temperature Stability
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: TO-277, 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-277



Dimensions inches and (millimeters)

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%.

Parameter	Symbol	SR 1045L	SR 1050L	SR 1060L	SR 1080L	SR 10100L	SR 10150L	Unit
Peak Repetitive Reverse Voltage	V_{RRM}							
Working Peak Reverse Voltage	V_{RWM}	45	50	60	80	100	150	V
DC blocking voltage	V_{DC}							
RMS Rectified Voltage	$V_{R(RMS)}$	32	35	42	56	70	105	V
Average Rectified Output Current (Note1)	I_O	15						A
Non-Repetitive Peak Forward Surge8.3ms								
Single Half Sine-Wave Superimposed on rated load(JEDEC Method) (Note2)	I_{FSM}	275						A
Forward Voltage Drop $T_A = 25^{\circ}C$ @ $I_F = 15A$	V_{FM}	0.45	0.48	0.55	0.75		0.80	V
Peak Reverse Curent $T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $T_A = 100^{\circ}C$	I_R	0.3 15						mA
Typical Thermal Resistance	$R_{\theta JA}$	80						°C/W
Junctionto Ambient	$R_{\theta JL}$	15						
Operating junction temperature range	T_J	-55 to +150						°C
storage temperature range	T_{STG}	-55 to +150						°C



RATINGS AND CHARACTERISTIC CURVES SR1545L THRU SR15150L

Fig.1 - Forward Current Derating Curve

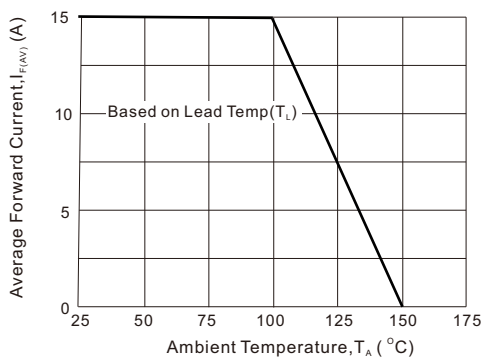


Fig2 : Instantaneous Forward Voltage

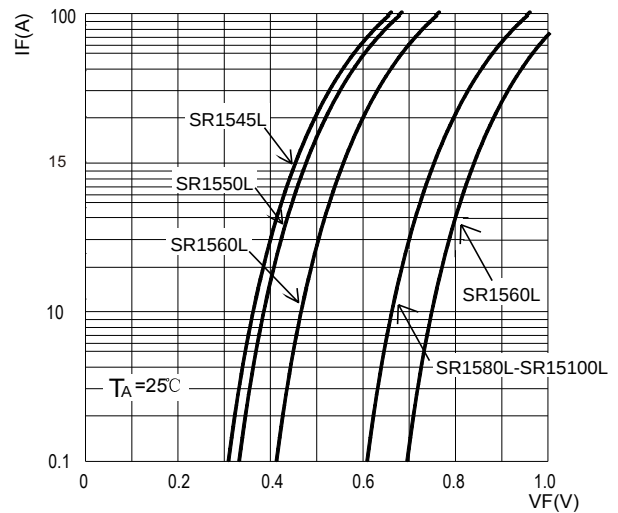


Fig3: Surge Forward Current Capability

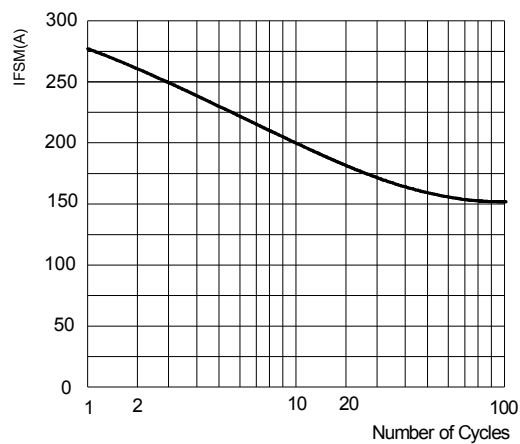


Fig4: Typical Reverse Characteristics

