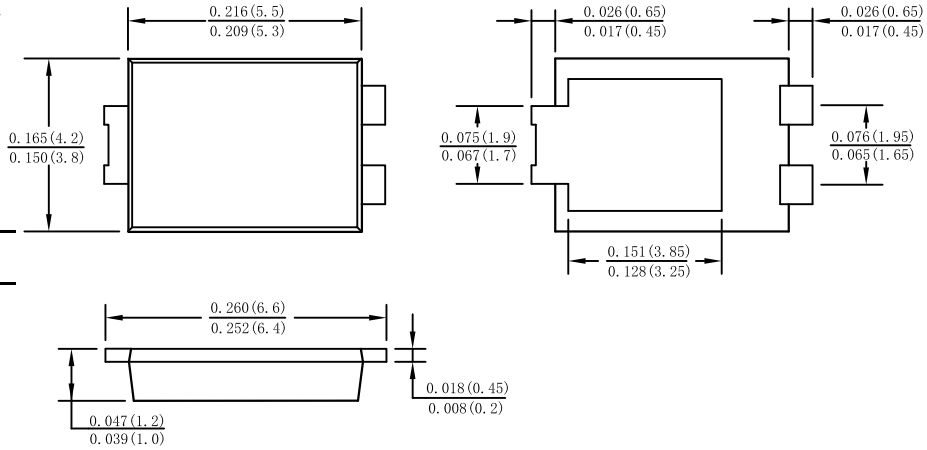
SR1045L THRU SR10100L

10.0A Surface Mount Schottky Barrier Rectifiers

Features

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

Case: TO-277B



Mechanical Data

- Case: TO-277B, molded plastic
- Terminals:Plated Leads Solderable per MIL-STD-202,Method 208
- Meet MSL level 1,per J-STD-020, LF Maximum peak of 260 ℃
- Polarity:Cathode Band
- Mounting Position:Any
- Marking:Type Number
- Lead Free:For RoHS/Lead Free Version

dimensions in inches and (millimeters)

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

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

Parameter	Symbol	SR1045L	SR1050L	SR1060L	SR1080L	SR10100L	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC blocking voltage	V_{RRM} V_{RWM} V_{DC}	45	50	60	80	100	V
RMS Rectified Voltage	$V_{R(RMS)}$	31.5	35	42	56	70	V
Average Rectified Output Current	IF(AV)	10					A
Non-Repetitive Peak Forward Surge8.3ms Single Half Sine-Wave Superimposed on rated load(JEDEC Method)	I_{FSM}	275					A
I^2t Rating for Fusing (t < 8.3ms)	I^2t	313.844					A^2s
Forward Voltage Drop T_A =25℃ @ IF=10A	V_{FM}	0.44	0.45	0.48	0.70		V
Peak Reverse Curent T_A =25℃ At Rated DC Blocking Voltage T_A =100℃	I_R	0.3 15					mA
Typical Thermal Resistance Junctionto Ambient	$R_{\theta JA}$ $R_{\theta JL}$	80 15					℃/W
Operating junction temperature range	T_J	-55 to +150					℃
storage temperature range	T_{STG}	-55 to +150					℃

Fig. 1 Forward Current Derating Curve

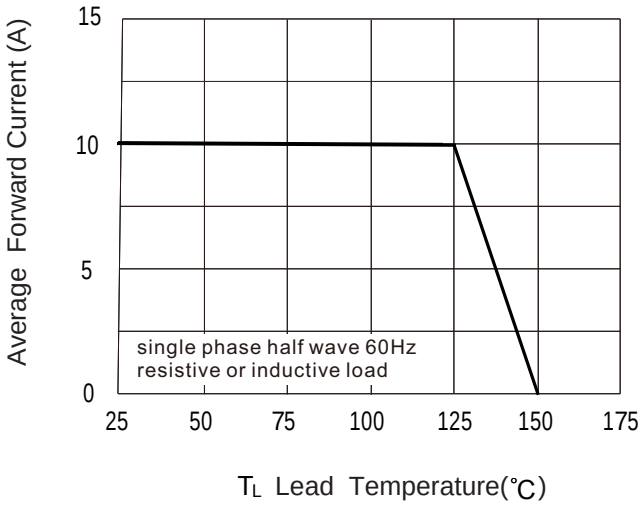


Fig. 2 Typ. Forward Characteristics

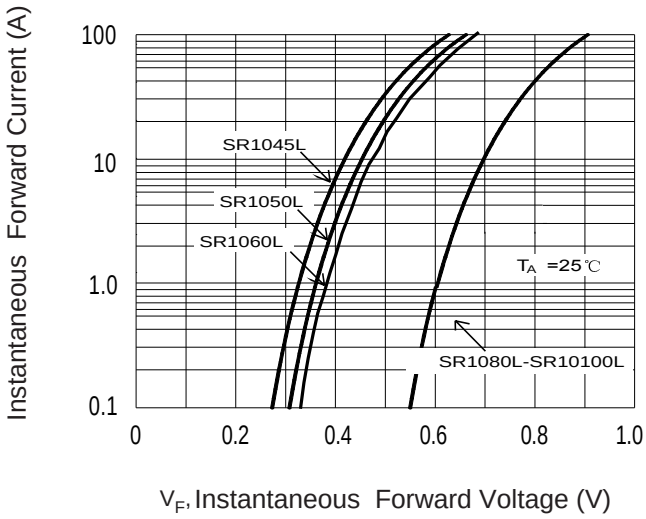


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

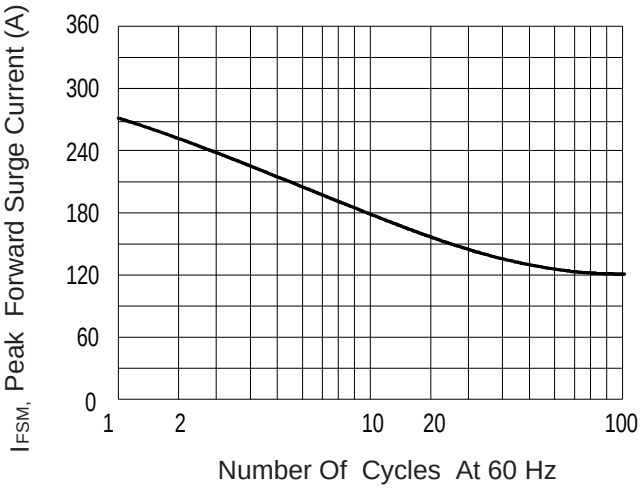


Fig.4 Typical Reverse Chracteristics

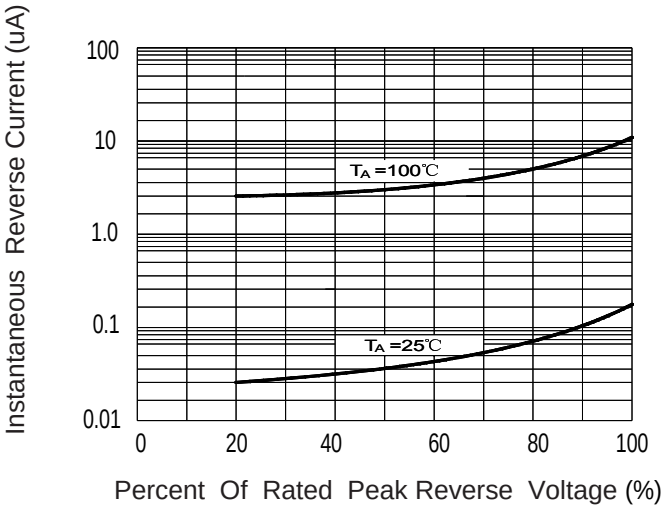
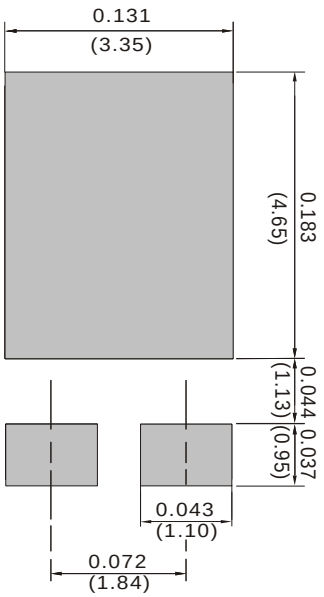


Fig.5 Mounting PAD Layout



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