



SL1045 THRU SL10100

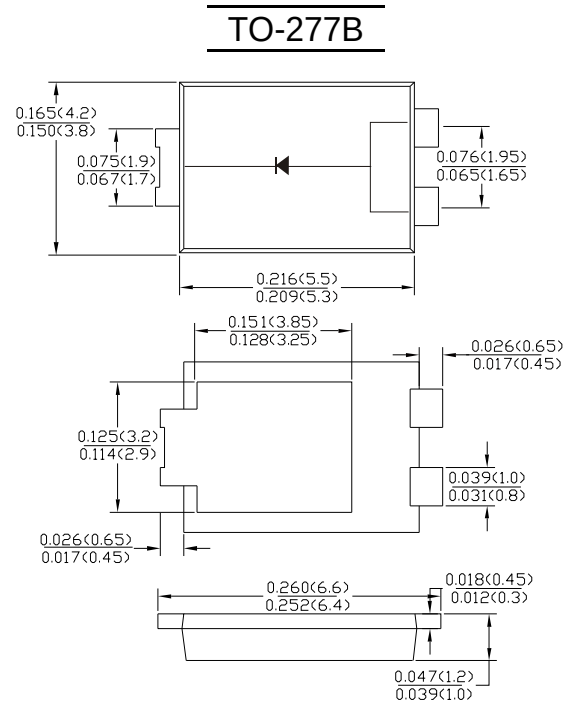
Surface Mount Schottky Rectifiers

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-277B, 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



dimensions in 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	SL1045	SL1050	SL1060	SL1080	SL10100	Unit
Peak Repetitive Reverse Voltage	V _{RRM}						
Working Peak Reverse Voltage	V _{RWM}	45	50	60	80	100	V
DC blocking voltage	V _{DC}						
RMS Rectified Voltage	V _{R(RMS)}	32	35	42	56	70	V
Average Rectified Output Current (Note1)	IF(AV)	10					A
Non-Repetitive Peak Forward Surge8.3ms	IFSM	250					A
Single Half Sine-Wave Superimposed on rated load(JEDEC Method) (Note2)							
I ² t Rating for Fusing (t < 8.3ms)	I ² t	259.375					A ² s
Forward Voltage Drop T _A =25°C @ IF=10A	V _{FM}	0.45	0.47	0.50	0.70		V
Peak Reverse Curent T _A =25°C At Rated DC Blocking Voltage T _A =100°C	I _R	0.3 15					mA
Typical Thermal Resistance	R _{θJA}	80					°C/W
Junctionto Ambient	R _{θJL}	10					
Operating junction temperature range	T _J	-55 to +150					°C
storage temperature range	T _{STG}	-55 to +150					°C

Note:1.Valid Provided that are kept at ambient temperature at a distance of 9.5mm from the case.

2.Fr-4pcb.2oz.Copper,minimum recommend pad layout .18.8mm×14.4.Anode pad dimensions 5.6mm×14.4mm.



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Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig.1 - Forward Current Derating Curve

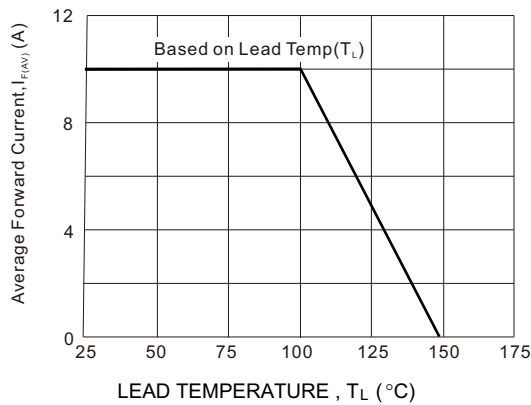


Fig2 : Instantaneous Forward Voltage

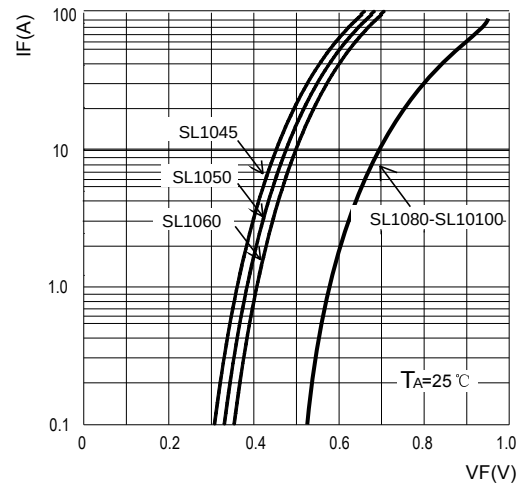


Fig3: Surge Forward Current Capability

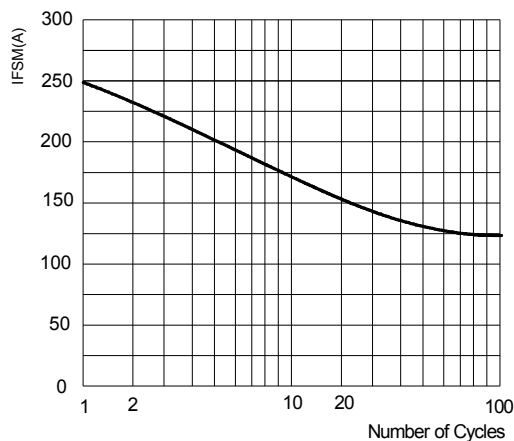


Fig4: Typical Reverse Characteristics

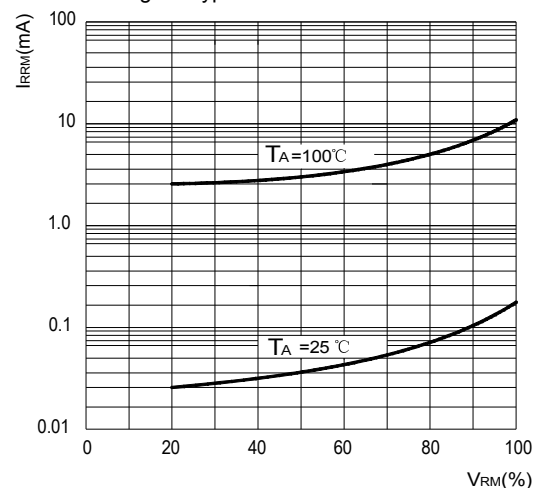


FIG.5 MOUNTING PAD LAYOUT

