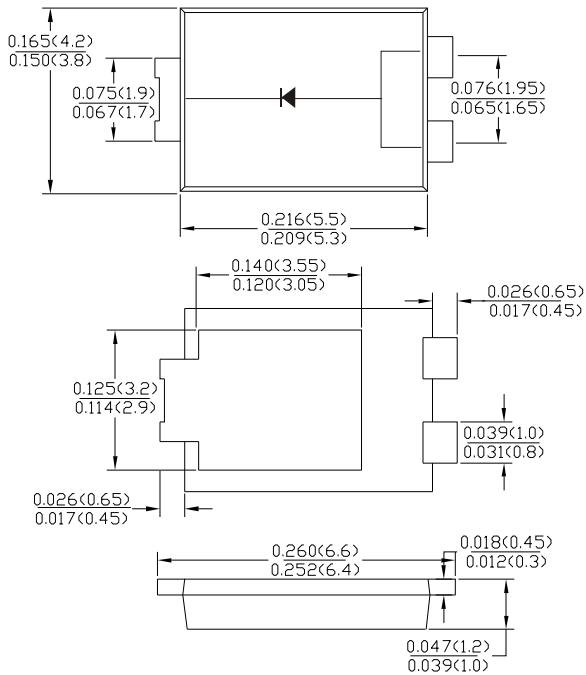




SL1045 THRU SL10150

10.0A Surface Mount Schottky Barrier Rectifiers

T0-277



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

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

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	SL 1045	SL 1050	SL 1060	SL 1080	SL 10100	SL 10150	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	10						A
Non-Repetitive Peak Forward Surge8.3ms								
Single Half Sine-Wave Superimposed on rated load(JEDEC Method) (Note2)	I _{FSM}	250						A
Forward Voltage Drop T _A =25 °C @IF=10A	V _{FM}	0.45	0.47	0.50	0.75		0.78	V
Peak Reverse Curent T _A =25°C	I _R	0.3						mA
At Rated DC Blocking Voltage T _A =100°C		15						
Typical Thermal Resistance	R _{θJA}	80						°C/W
Junctionto Ambient	R _{θJL}	15						
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.



RATINGS AND CHARACTERISTIC CURVES SL1045 THRU SL10150

Fig.1 - Forward Current Derating Curve

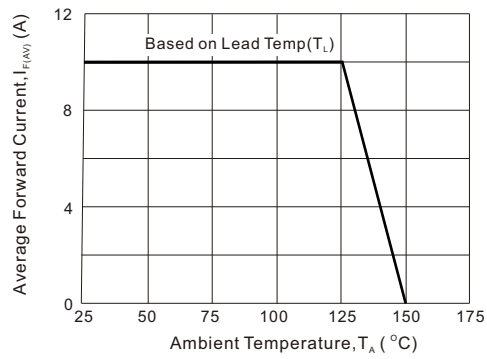


Fig2 : Instantaneous Forward Voltage

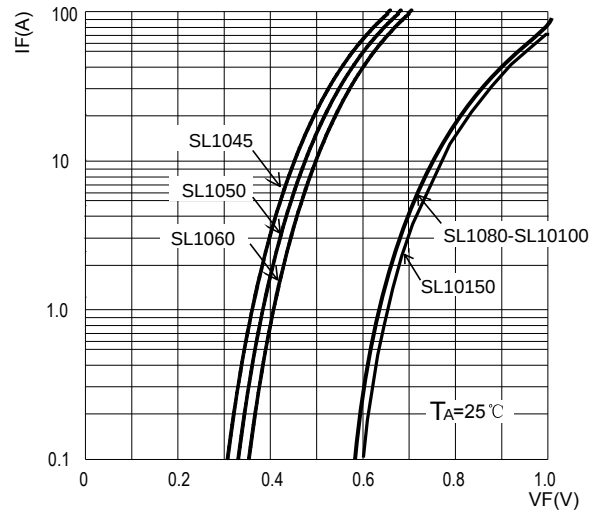


Fig3: Surge Forward Current Capability

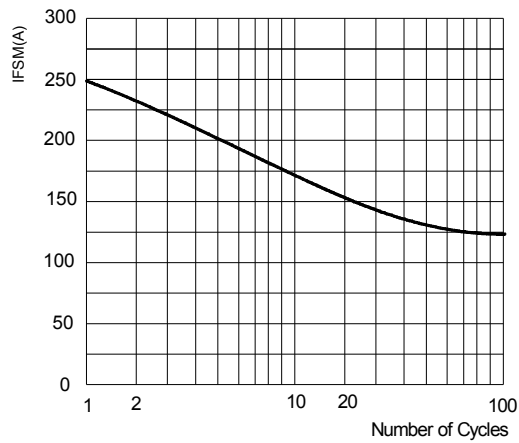
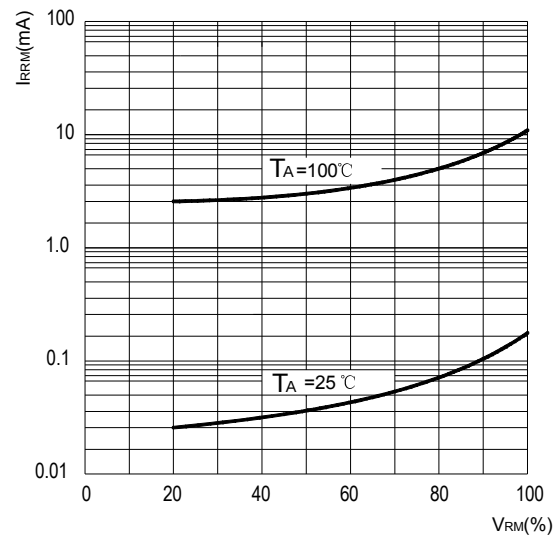


Fig4: Typical Reverse Characteristics



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

