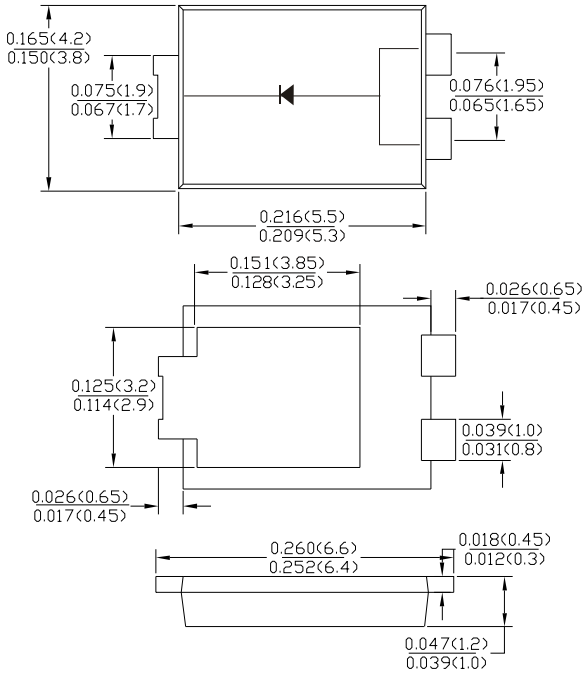
SL1545 THRU SL1580

15.0A 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

TO-277B



dimensions in inches and (millimeters)

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

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	SL1545	SL1550	SL1560	SL1580	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC blocking voltage	V_{RRM} V_{RWM} V_{DC}	45	50	60	80	V
RMS Rectified Voltage	$V_{R(RMS)}$	28	35	42	56	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℃ @ IF=15A	V_{FM}	0.48	0.50	0.55	0.75	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				℃

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.

SL1545 THRU SL1580

15.0A Surface Mount Schottky Barrier Rectifiers

Fig.1 - Forward Current Derating Curve

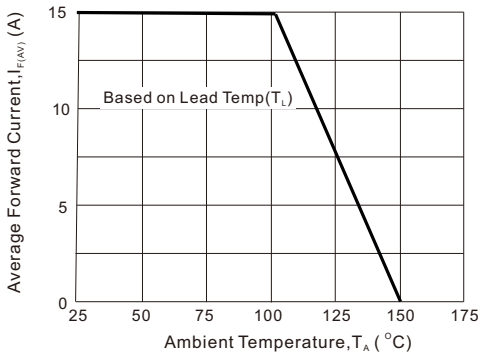


Fig2 : Instantaneous Forward Voltage

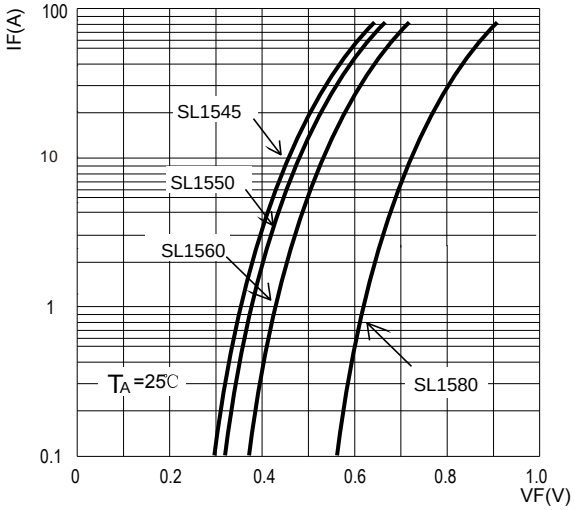


Fig3: Surge Forward Current Capadility

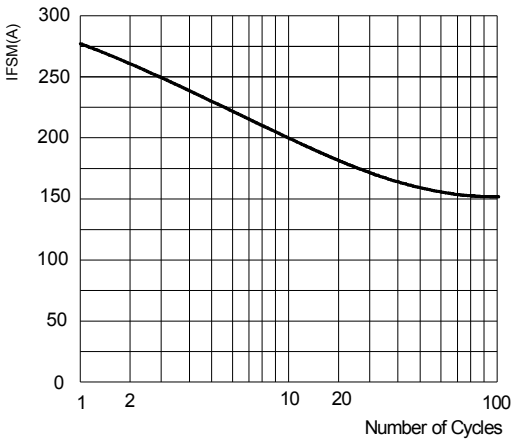


Fig4: Typical Reverse Characteristics

