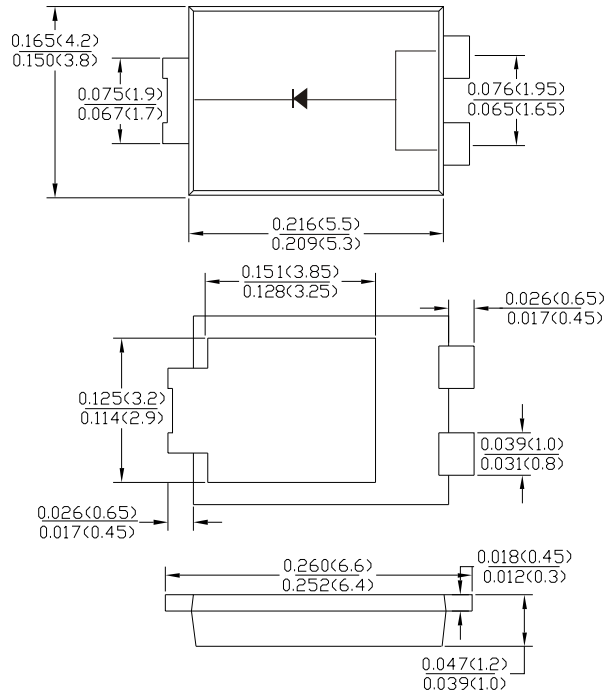


TO-277B



dimensions in inches and (millimeters)

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 @ $T_A = 25^\circ\text{C}$ unless otherwise specified

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

Parameter	Symbol	SL 0540	SL 0545	SL 0550	SL 0560	SL 0580	SL 05100	SL 05150	SL 05200	Unit
Peak Repetitive Reverse Voltage	V_{RRM}									V
Working Peak Reverse Voltage	V_{RWM}	40	45	50	60	80	100	150	200	V
DC blocking voltage	V_{DC}									V
RMS Rectified Voltage	$V_{R(RMS)}$	28	32	35	42	56	70	105	140	V
Average Rectified Output Current (Note1)	I_o	5.0								A
Non-Repetitive Peak Forward Surge 8.3ms Single Half Sine-Wave Superimposed on rated load(JEDEC Method) (Note2)	I_{FSM}	130								A
Forward Voltage Drop $T_A = 25^\circ\text{C}$ @ $I_F = 5\text{A}$	V_{FM}	0.52		0.68		0.82		0.85	0.90	V
Peak Reverse Current $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage $T_A = 100^\circ\text{C}$	I_R	0.3 15								mA
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$ $R_{\theta JL}$	80 15								$^\circ\text{C/W}$
Operating junction temperature range	T_J	-55 to +150								$^\circ\text{C}$
storage temperature range	T_{STG}	-55 to +150								$^\circ\text{C}$

Fig.1 - Forward Current Derating Curve

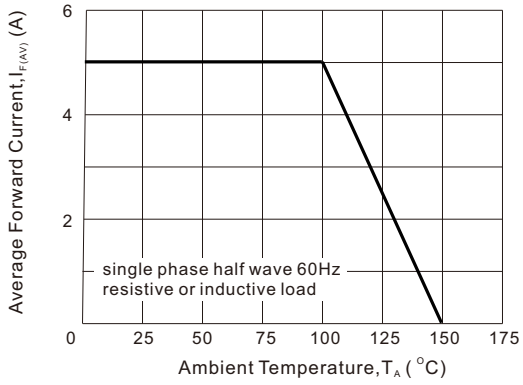


Fig2 : Instantaneous Forward Voltage

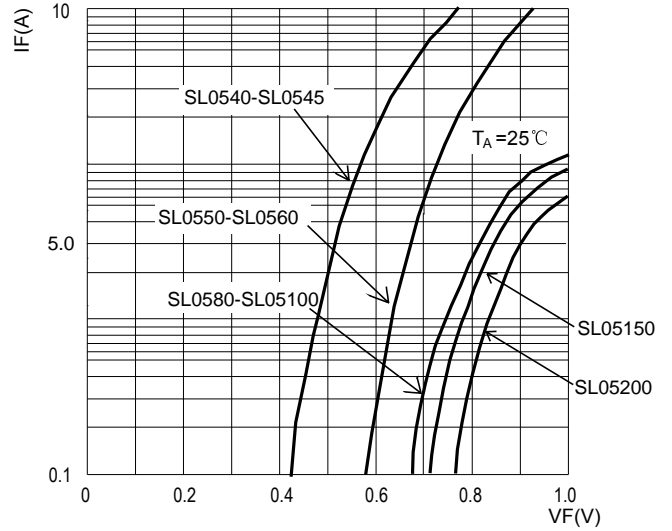


Fig3: Surge Forward Current Capacity

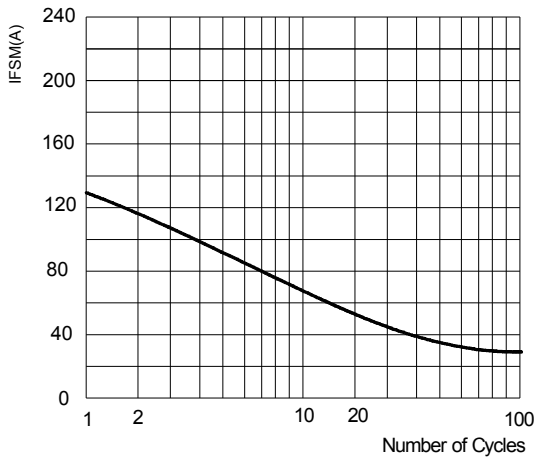


Fig4: Typical Reverse Characteristics

