

SL2045 THRU SL20200

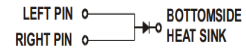
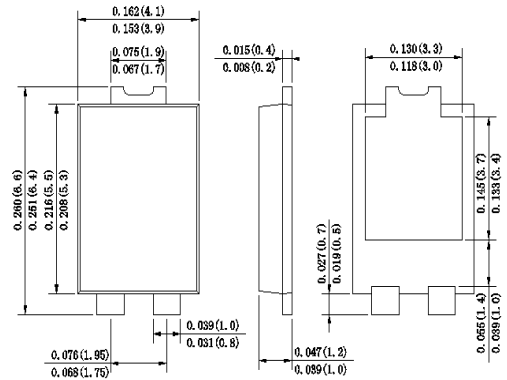
Reverse Voltage - 45 to 200 Volts Forward Current -20.0 Ampere

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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-277



Dimensions in inches and (millimeters)

Mechanical Data

Case : JEDEC TO-277 Molded plastic body

Terminals :Plated Leads Solderable per MIL-STD-202,Method 208

Polarity : Polarity symbol marking on body

Mounting Position : Any

Weight : 0.003 ounce, 0.092 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter	SYMBOLS	SL 2045	SL 2050	SL 2060	SL 2080	SL 20100	SL 20150	SL 20200	UNIT	
Marking Code										
Maximum repetitive peak reverse voltage	V_{RRM}									
Maximum working peak reverse voltage	V_{RWM}	45	50	60	80	100	150	200	V	
Maximum DC blocking voltage	V_{DC}									
RMS Reverse voltage	V_{RMS}	32	35	42	56	70	105	140	V	
Average Rectified Output Current	$I_{(O)}$	20							A	
Non-Repetitive Peak Forward Surge 8.3ms Single Half Sine-Wave Superimposed on rated load(JEDEC Method)	I_{FSM}	275							A	
Forward Voltage Drop at 20.0A $T_A=25^\circ C$	V_F	0.50	0.55	0.75			0.78		V	
Peak reverse curent at rated DC blocking voltage	I_R	$T_A=25^\circ C$			0.3		$T_A=125^\circ C$			mA
Typical thermal resistance Junctionto Ambient	$R_{\theta JA}$ $R_{\theta JL}$	80			15					$^\circ C/W$
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150							$^\circ C$	

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×14.4m m.

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Ratings And Characteristic Curves

Fig.1 - Forward Current Derating Curve

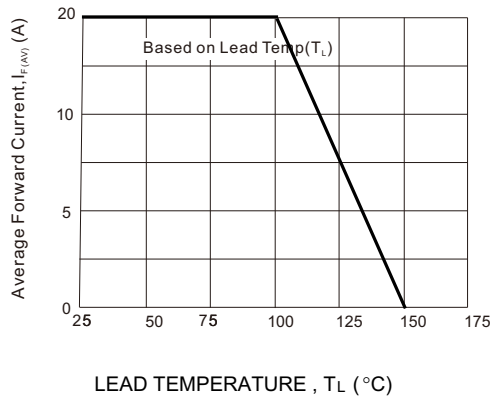


Fig2 : Instantaneous Forward Voltage

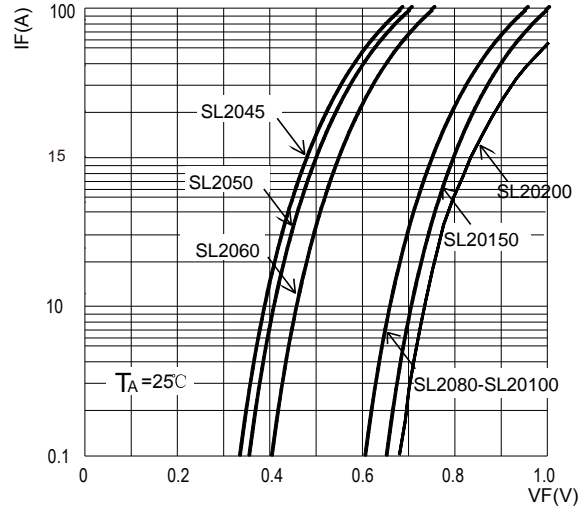


Fig3: Surge Forward Current Capadility

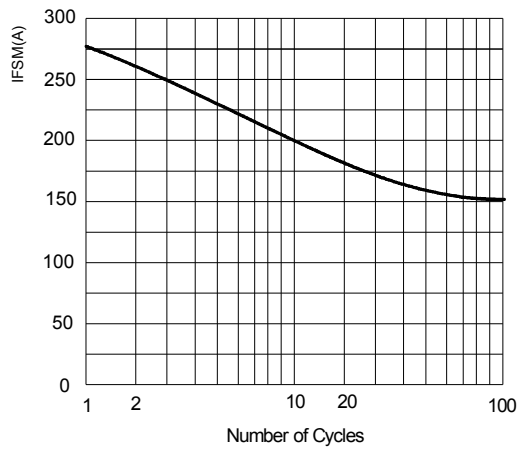
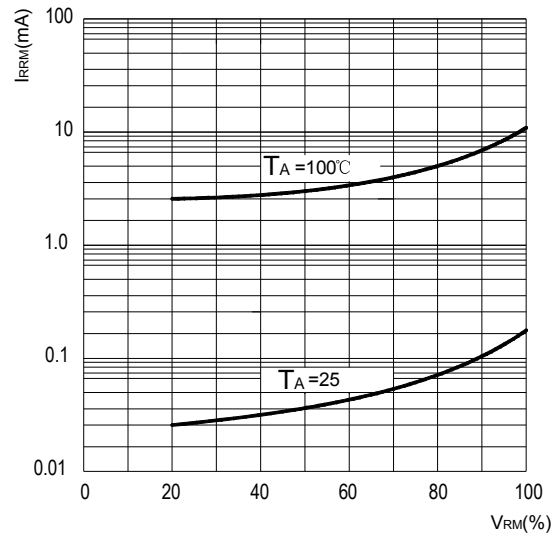


Fig4: Typical Reverse Characteristics



The curve above is for reference only.