

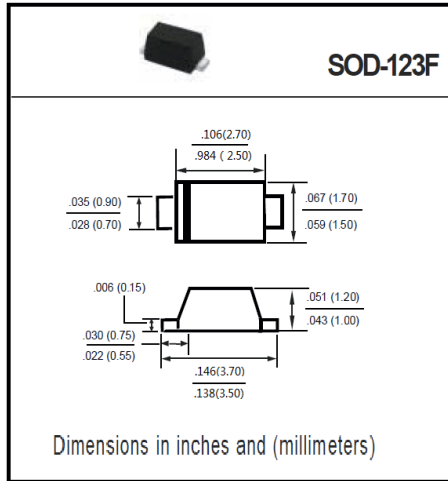


SHANGSI

# SL12FL thru SL110FL

表面安装肖特基二极管  
反向电压 20 --- 100 V  
正向电流 1.0A

Surface Mount Schottky Barrier Rectifiers  
Reverse Voltage 20 to 100 V  
Forward Current 1.0 A



## 特征 Features

- 大电流承受能力。High Current Capability
- 正向压降低。Low Forward Voltage Drop
- 高温焊接保证 260°C/10 秒 High temperature soldering guaranteed: 260°C/10seconds at terminals
- 引线 and 管体皆符合 RoHS 标准。Lead and body according with RoHS standard

## 机械数据 Mechanical Data

- 封装: 塑料封装 Case: Molded plastic body
- 端子: 焊料被镀 Terminals: Solder plated
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 安装位置: 任意 Mounting Position: Any

极限值和温度特性  $T_A = 25^\circ\text{C}$  除非另有规定。

## Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

	Symbols	SL12FL	SL13FL	SL14FL	SL15FL	SL16FL	SL18FL	SL19FL	SL110FL	Unit
最大峰值反向电压 Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	90	100	V
最大反向有效值电压 Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	56	63	70	V
最大直流阻断电压 Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	90	100	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	1.0								A
正向峰值浪涌电流 8.3ms 单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave	$I_{FSM}$	40								A
典型热阻 Typical thermal resistance	$R_{\theta JA}$	88								°CW
工作结温和存储温度 Operating junction and storage temperature range	$T_J, T_{STG}$	-50---+150								°C

电特性  $T_A = 25^\circ\text{C}$  除非另有规定。

## Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

	Symbols	SL12FL	SL13FL	SL14FL	SL15FL	SL16FL	SL18FL	SL19FL	SL110FL	Unit
最大正向电压 $I_F = 1.0A$ Maximum forward voltage	$V_F$	0.42			0.50		0.68			V
最大反向漏电流 $T_A = 25^\circ\text{C}$ Maximum reverse current	$I_R$	0.2								mA
典型结电容 $V_R = 4.0V, f = 1MHz$ Type junction capacitance	$C_J$	85								pF



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# SL12F thru SL110F

## 特性曲线 CHARACTERISTIC CURVES

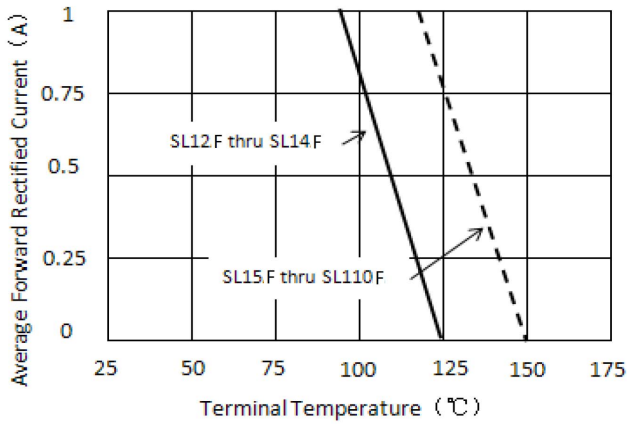


Figure 1. Forward Current Derating Curve



Figure 2. Maximum Non-repetitive Peak Forward Surge Current

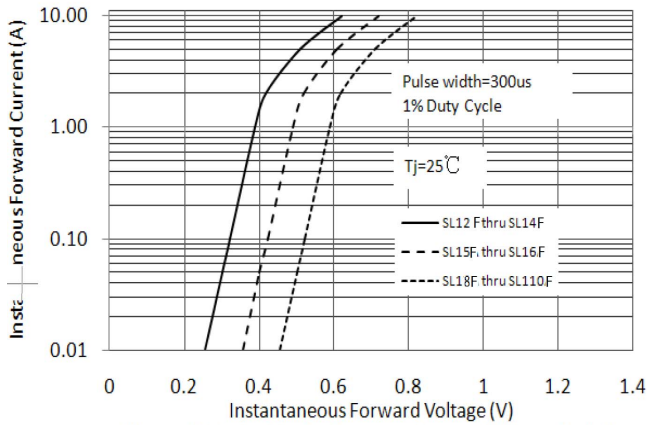


Figure 3. Typical Instantaneous Forward Characteristics

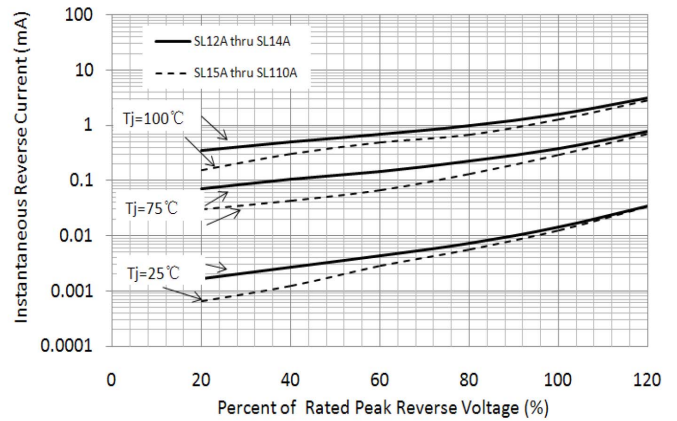


Figure 4. Typical Reverse Characteristics

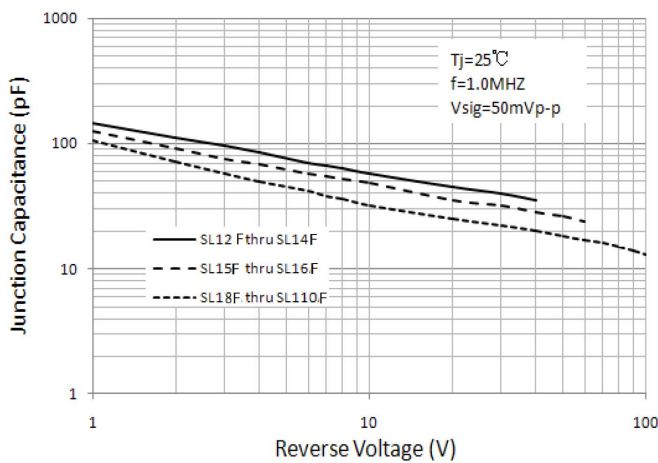
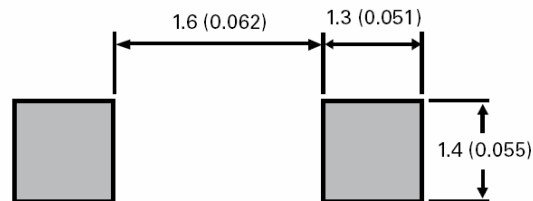


Figure 5. Typical Junction Capacitance

## Mounting Pad Layout



## Packing

Part number	Component Package	Quantity	Packaging Option
SL12F-SL110F	SOD-123F	3000	Tape & Reel – 8mm/7" tape
		10000	Tape & Reel – 8mm/13" tape

## Tape and Reel Specification

