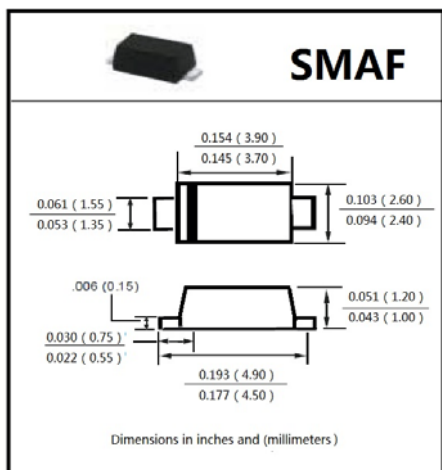


表面安装肖特基二极管  
反向电压 20 --- 100 V  
正向电流 3.0A

Surface Mount Schottky Barrier Rectifiers  
Reverse Voltage 20 to 100 V  
Forward Current 3.0 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/10 seconds 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	SL32F	SL33F	SL34F	SL35F	SL36F	SL38F	SL310F	Unit
最大峰值反向电压 Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	100	V
最大反向有效值电压 Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	56	70	V
最大直流阻断电压 Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	3.0							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	$I_{FSM}$	80							A
典型热阻 Typical thermal resistance	$R_{\theta JA}$	75							$^\circ\text{C/W}$
工作结温和存储温度 Operating junction and storage temperature range	$T_J, T_{STG}$	-55---+(125)150			-55---+150				$^\circ\text{C}$

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	SL32F	SL33F	SL34F	SL35F	SL36F	SL38F	SL310F	Unit
最大正向电压 $I_F = 3.0A$ Maximum forward voltage	$V_F$	0.43			0.50		0.60		V
最大反向漏电流 $T_A = 25^\circ\text{C}$ Maximum reverse current $T_A = 100^\circ\text{C}$	$I_R$	0.2			0.15				mA
		10.0			5.0				
典型结电容 $V_R = 4.0V, f = 1\text{MHz}$ Type junction capacitance	$C_J$	220							pF

## Typical Electrical Characteristic Curves

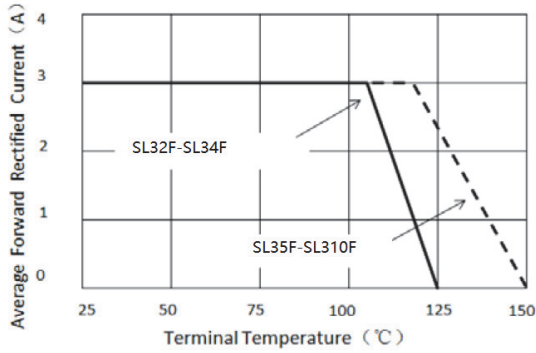


Figure 1. Forward Current Derating Curve

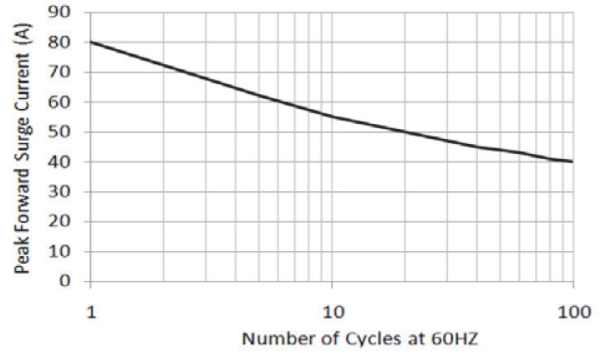


Figure 2. Maximum Non-repetitive Peak Forward Surge Current

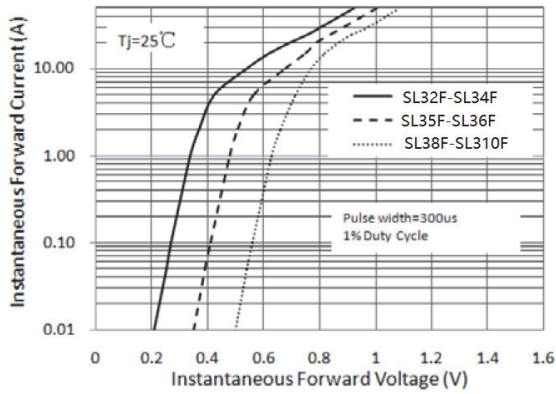


Figure 3. Typical Instantaneous Forward Characteristics

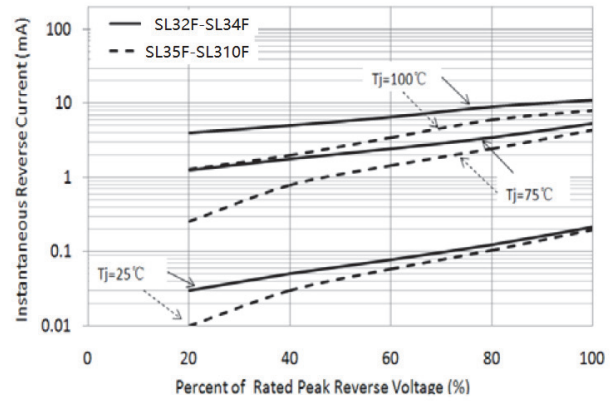


Figure 4. Typical Reverse Characteristics

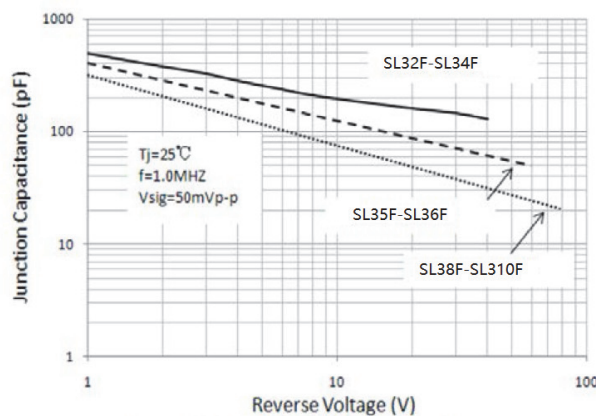
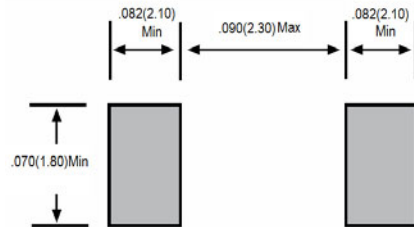


Figure 5. Typical Junction Capacitance

## Mounting Pad Layout



## Packing

Part number	Component Package	Quantity	Packaging Option
SL32F-SL310F	DO-219AB SMF	10000	Tape & Reel – 12mm/13" tape

## Tape and Reel Specification

