

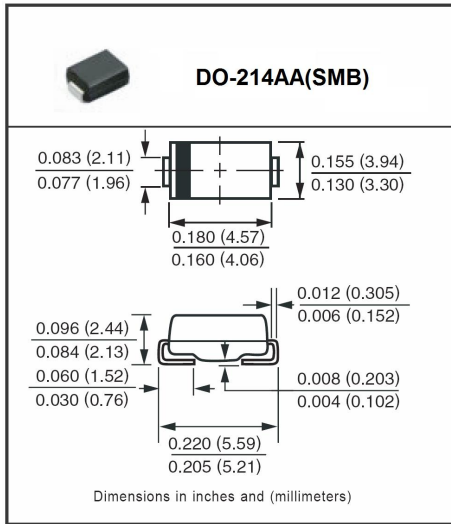


SHANGSI

SL32B thru SL310B

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	SL32B	SL33B	SL34B	SL35B	SL36B	SL38B	SL310B	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}	100							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}	-50---+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	SL32B	SL33B	SL34B	SL35B	SL36B	SL38B	SL310B	Unit
最大正向电压 $I_F = 3.0A$ Maximum forward voltage	V_F	0.42			0.50		0.75		V
最大反向漏电流 $T_A = 25^\circ\text{C}$ Maximum reverse current	I_R	0.2			0.15				mA
典型结电容 $V_R = 4.0V, f = 1MHz$ Type junction capacitance	C_J	220							pF



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Typical Electrical Characteristic Curves

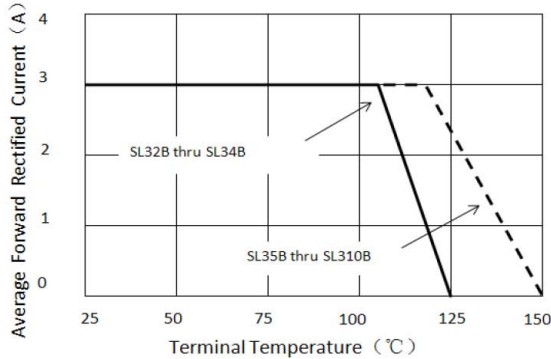


Figure 1. Forward Current Derating Curve

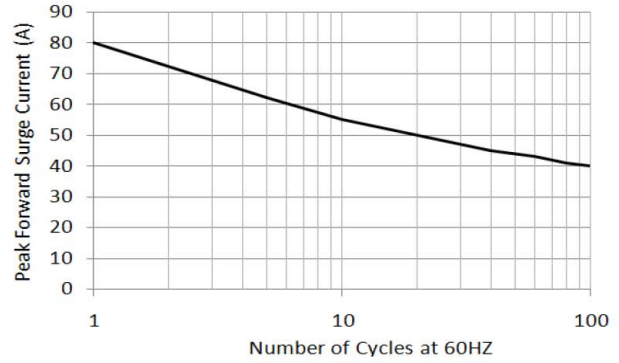


Figure 2. Maximum Non-repetitive Peak Forward Surge Current

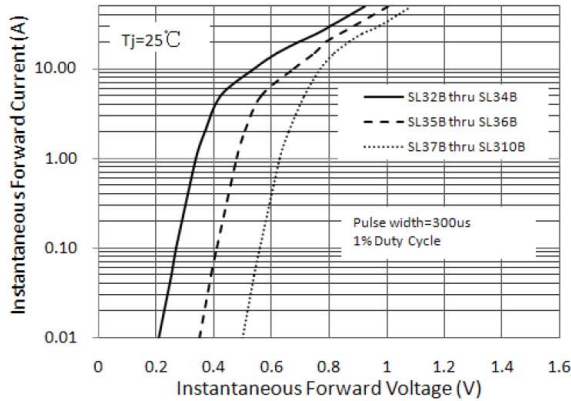


Figure 3. Typical Instantaneous Forward Characteristics

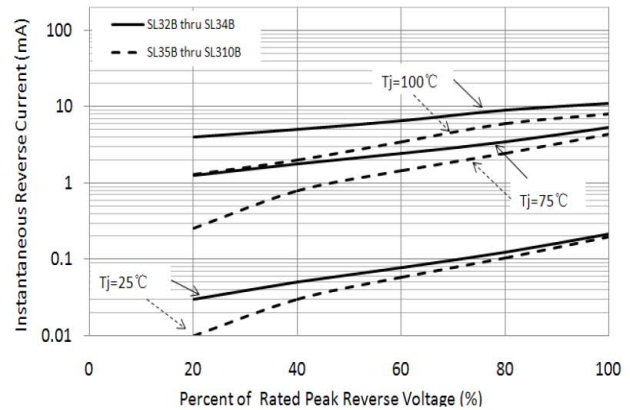


Figure 4. Typical Reverse Characteristics

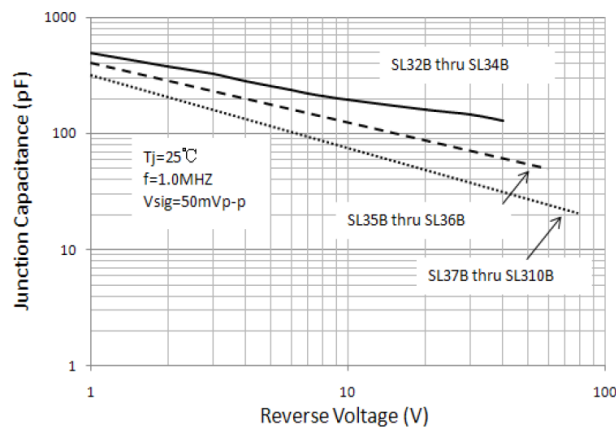
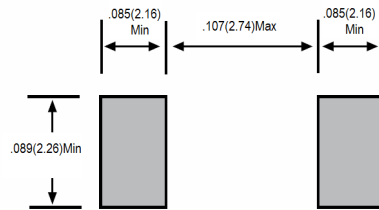


Figure 5. Typical Junction Capacitance

Mounting Pad Layout



Packing

Part number	Component Package	Quantity	Packaging Option
SL32B-SL310B	DO-214AA SMB	3000	Tape & Reel – 12mm/13" tape

Tape and Reel Specification

