

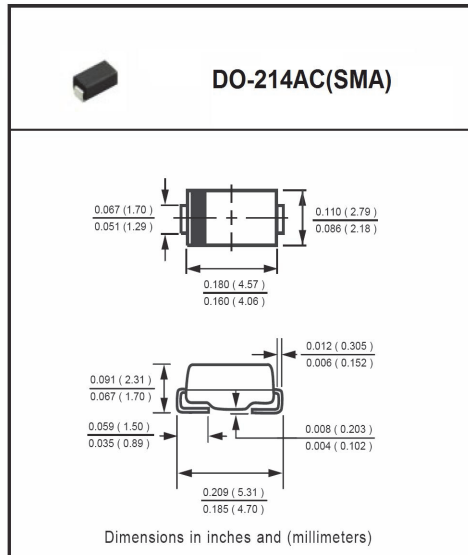


SHANGSI

SL22A thru SL24A

低正向表面安装肖特基二极管
反向电压20 --- 40 V
正向电流2.0A

Low Vf Surface Mount Schottky Barrier Rectifiers
Reverse Voltage 20 to 40 V
Forward Current 2.0 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℃/10 秒 High temperature soldering guaranteed: 260℃/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	SL22A	SL23A	SL24A	Unit
最大峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	V
最大反向有效值电压 Maximum RMS voltage	V_{RMS}	14	21	28	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	20	30	40	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	2.0			A
正向峰值浪涌电流 8.3ms单一半正弦波 Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	50			A
典型热阻 Typical thermal resistance	$R_{\theta JA}$	70			$^\circ\text{C/W}$
工作结温和存储温度 Operating junction and storage temperature range	T_J, T_{STG}	-55--+125			$^\circ\text{C}$

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	SL22A	SL23A	SL24A	Unit
最大正向电压 $I_F = 2.0A$ Maximum forward voltage	V_F	0.40	0.40	0.42	V
最大反向漏电流 Maximum reverse current	I_R	$T_A = 25^\circ\text{C}$ 1.0 $T_A = 100^\circ\text{C}$ 10.0			mA
典型结电容 $V_R = 4.0V, f = 1\text{MHz}$ Type junction capacitance	C_J	160			pF



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特性曲线 Characteristic Curves

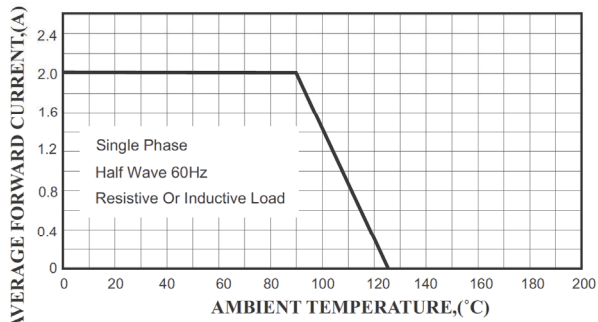


FIG.1 Typical Forward Current Derating Curve

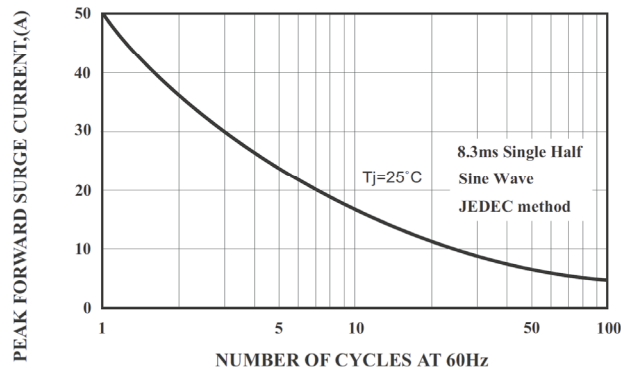


FIG.3 Maximum Non-Repetitive Forward Surge Current

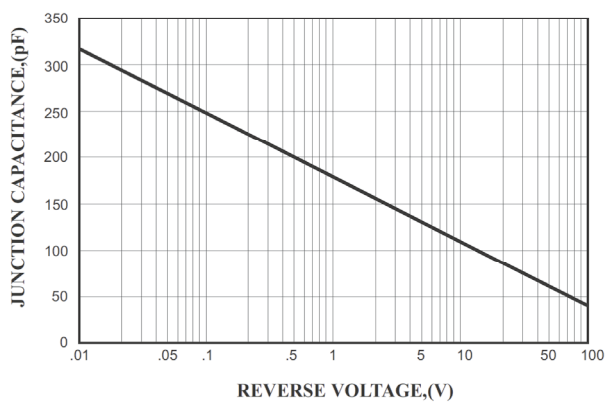


FIG.4 Typical Junction Capacitance

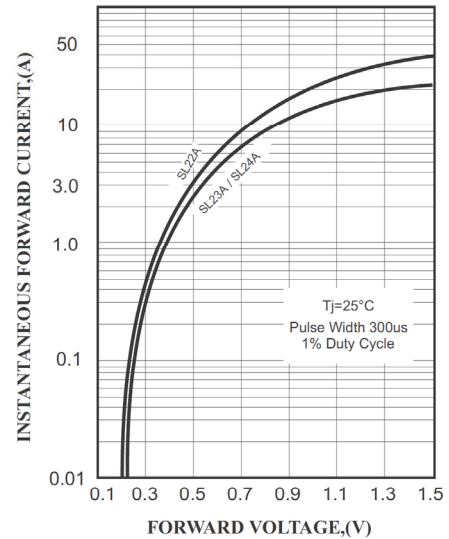


FIG.2 Typical Forward Characteristics

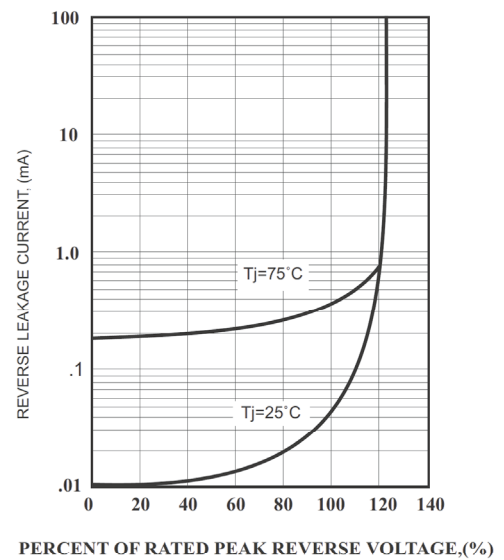


FIG.5 Typical Reverse Characteristics

Diagram illustrating the assembly of three plates with specified tolerances:

- Top plate thickness: $.082(2.10)$ Min
- Gap between top and middle plates: $.090(2.30)$ Max
- Gap between middle and bottom plates: $.082(2.10)$ Min
- Bottom plate thickness: $.070(1.80)$ Min

Part number	Component Package	Quantity	Packaging Option
SL22A-SL24A	DO-214AC SMA	5000	Tape & Reel – 12mm/13" tape

Figure 1: Dimensions of the catheter. The figure includes three views: a side view of the catheter body, a top view of the circular catheter head, and a detail view of the catheter body cross-section. The side view shows a length of 13.0 inches (330 mm) and a diameter of 0.47 inches (12.0 mm). The top view shows an arbor hole diameter of 0.80 inches (20.2 mm) and a thickness of 0.49 inches (12.5 mm). The detail view shows a cover tape with a 0.059 inch (1.5 mm) diameter hole and a 0.157 inch (4.0 mm) spacing between holes. A 'Direction of Feed' arrow points to the right.