

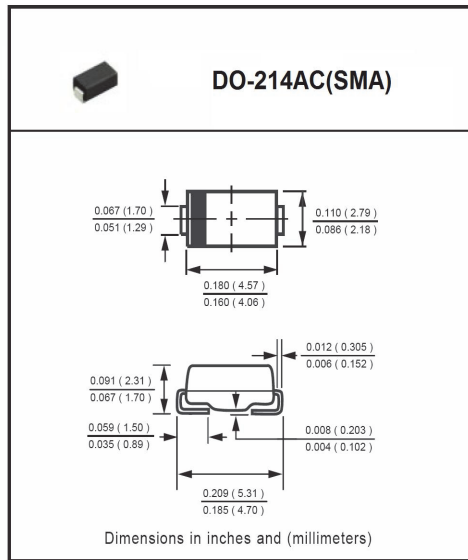


SHANGSI

SL12 thru SL14

低正向表面安装肖特基二极管
反向电压20 --- 40 V
正向电流1.0A

Low Vf Surface Mount Schottky Barrier Rectifiers
Reverse Voltage 20 to 40 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℃/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	SL12	SL13	SL14	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	$I_{F(AV)}$	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}	30			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	SL12	SL13	SL14	Unit
最大正向电压 $I_F = 1.0A$ Maximum forward voltage	V_F	0.40	0.40	0.42	V
最大反向漏电流 Maximum reverse current	I_R	0.5 20.0			mA

特性曲线 Characteristic Curves

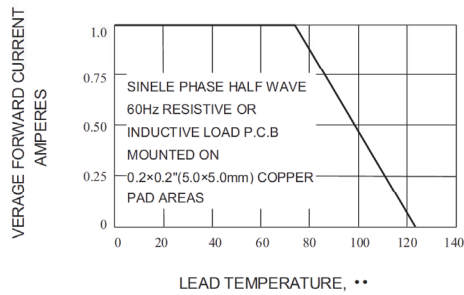


Fig. 1-FORWARD CURRENT DERATING CURVE

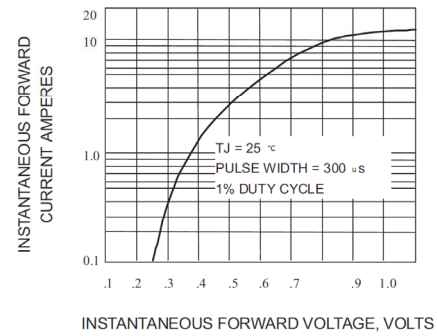


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

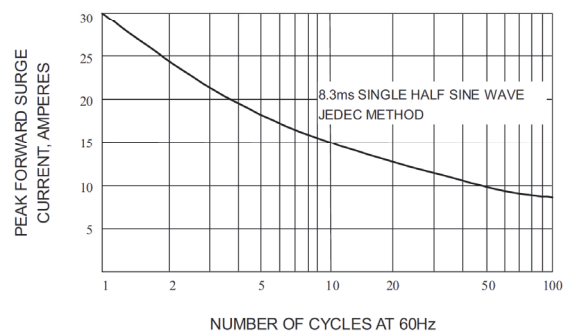


Fig. 3-MAXIMUM NON-REPETITIVE SURGE CURRENT

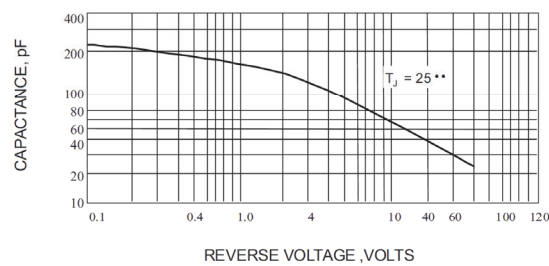


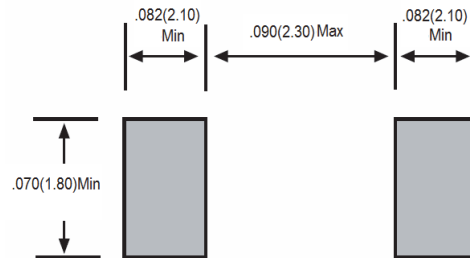
Fig. 4-TYPICAL JUNCTION CAPACITANCE



SHANGSI

SL12 thru SL13

Mounting Pad Layout



Packing

Part number	Component Package	Quantity	Packaging Option
SL12-SL13	DO-214AC SMA	5000	Tape & Reel – 12mm/13" tape

Tape and Reel Specification

