

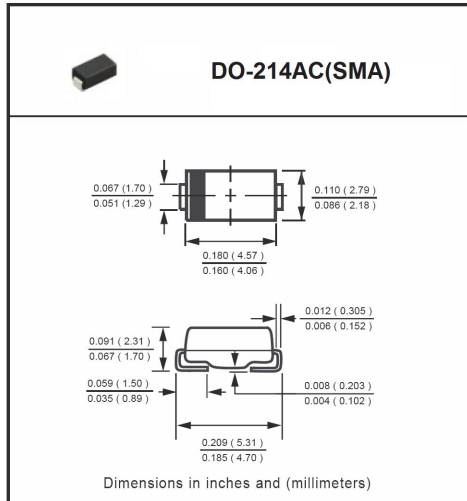


SHANGSI

SK52A thru SK510A

表面安装肖特基二极管
反向电压 20 --- 100 V
正向电流 5.0A

Surface Mount Schottky Barrier Rectifiers
Reverse Voltage 20 to 100 V
Forward Current 5.0 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	SK52A	SK53A	SK54A	SK55A	SK56A	SK58A	SK510A	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	$I_{F(AV)}$	5.0							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}	150							A
典型热阻 Typical thermal resistance	$R_{\theta JA}$	55							$^\circ\text{C/W}$
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	SK52A	SK53A	SK54A	SK55A	SK56A	SK58A	SK510A	Unit
最大正向电压 $I_F = 5.0A$ Maximum forward voltage	V_F	0.5			0.75		0.85		V
最大反向漏电流 Maximum reverse current	I_R				1 20				mA
典型结电容 $V_R = 4.0V, f = 1MHz$ Type junction capacitance	C_J				200				pF



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特性曲线 Characteristic Curves

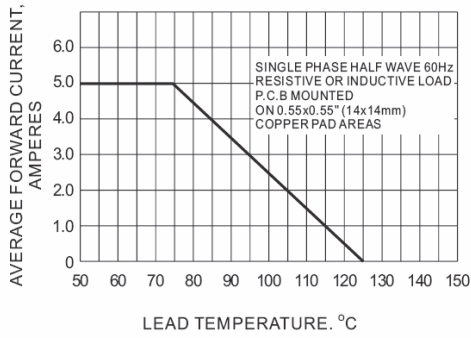


Fig.1- FORWARD CURRENT DERATING CURVE

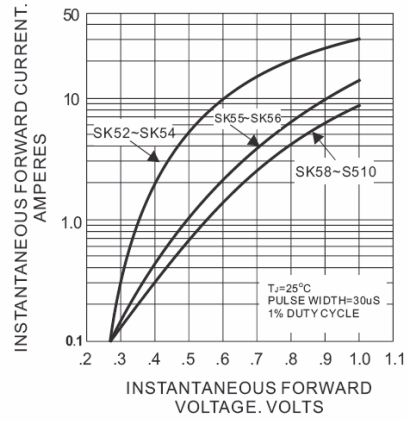


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

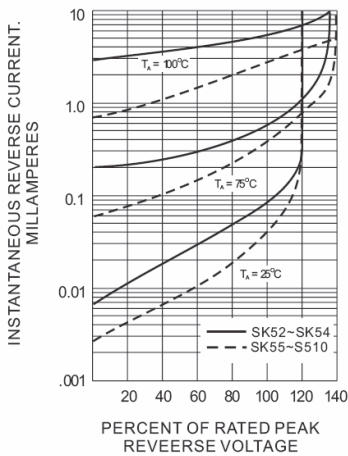


Fig.3- TYPICAL REVERSE CHARACTERISTICS

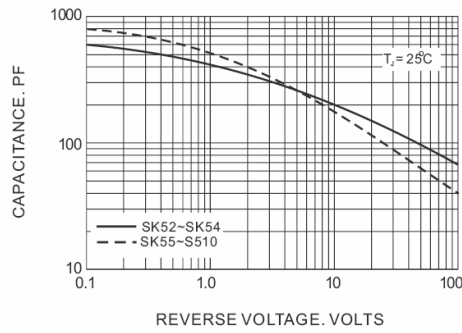


Fig.4- TYPICAL JUNCTION CAPACITANCE

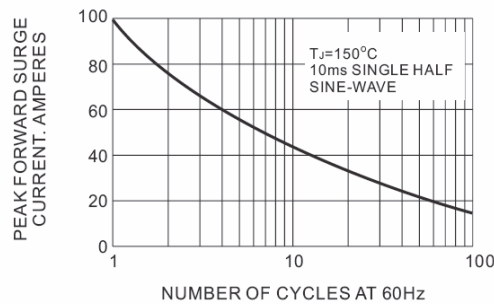
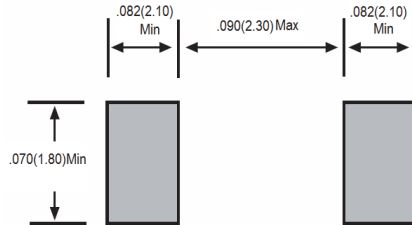


Fig.5- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

Mounting Pad Layout



Packing

Part number	Component Package	Quantity	Packaging Option
SK52A-SK510A	DO-214AC SMA	5000	Tape & Reel – 12mm/13" tape

Tape and Reel Specification

