

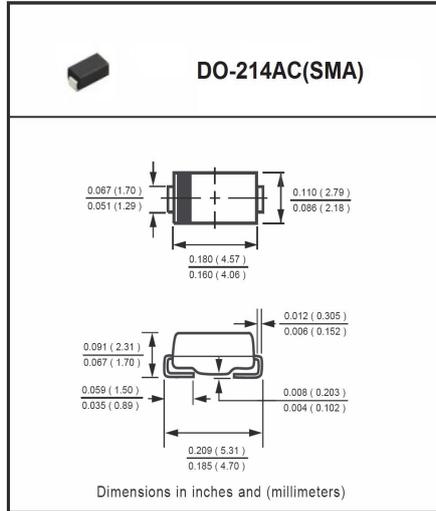


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表面安装肖特基二极管  
反向电压 20 --- 200 V  
正向电流 5.0A

SS52A thru SS520A

Surface Mount Schottky Barrier Rectifiers  
Reverse Voltage 20 to 200 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/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	SS52A	SS54A	SS55A	SS56A	SS58A	SS510A	SS515A	SS520A	Unit
最大峰值反向电压 Maximum repetitive peak reverse voltage	$V_{RRM}$	20	40	50	60	80	100	150	200	V
最大反向有效值电压 Maximum RMS voltage	$V_{RMS}$	14	28	35	42	56	70	105	140	V
最大直流阻断电压 Maximum DC blocking voltage	$V_{DC}$	20	40	50	60	80	100	150	200	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	SS52A	SS54A	SS55A	SS56A	SS58A	SS510A	SS515A	SS520A	Unit
最大正向电压 $I_F = 5.0A$ Maximum forward voltage	$V_F$	0.5		0.60		0.80		0.90		V
最大反向漏电流 $I_A = 25^\circ\text{C}$ Maximum reverse current $T_A = 100^\circ\text{C}$	$I_R$	1/50								mA
典型结电容 $V_R = 4.0V, f = 1MHz$ Type junction capacitance	$C_J$	500					300			pF



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# SS52A thru SS520A

## 特性曲线 CHARACTERISTIC CURVES

FIG. 1 – FORWARD CURRENT DERATING CURVE

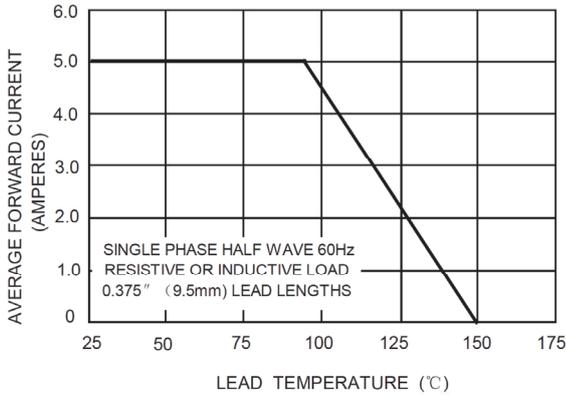


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

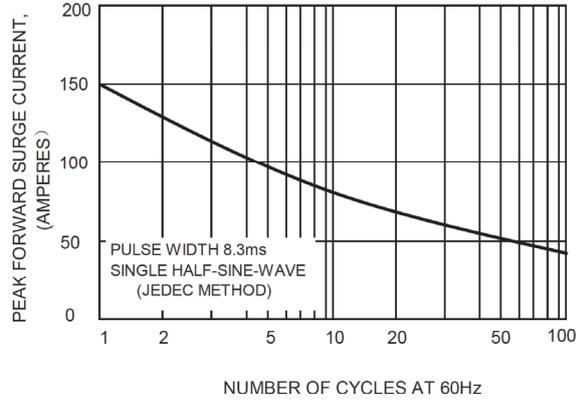


FIG.3 – TYPICAL JUNCTION CAPACITANCE

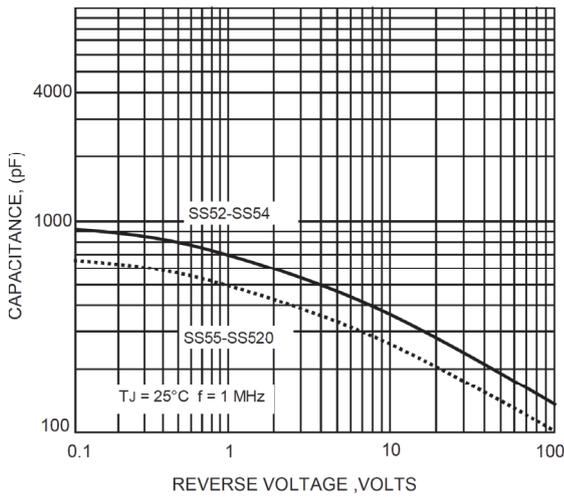


FIG.4-TYPICAL FORWARD CHARACTERISTICS

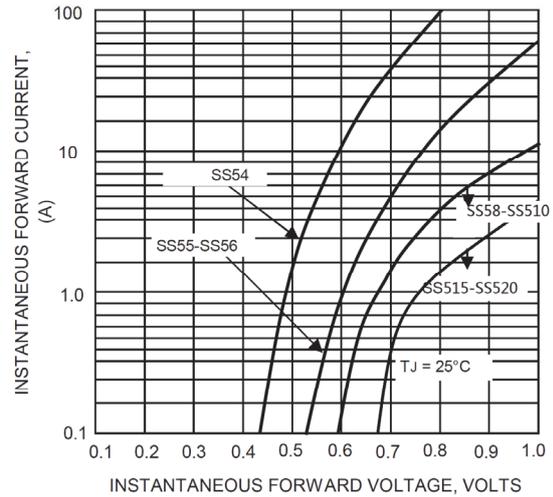
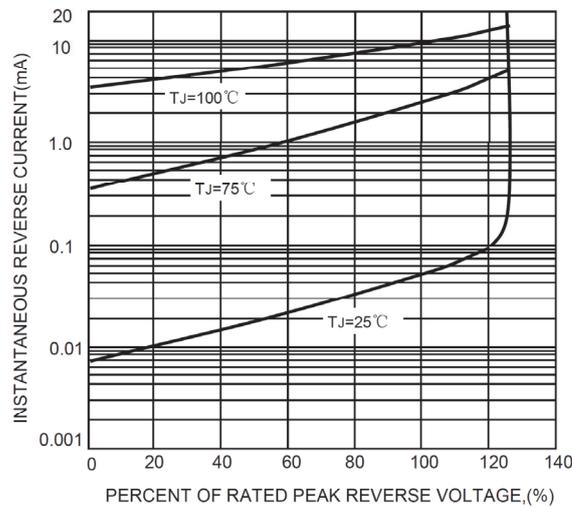
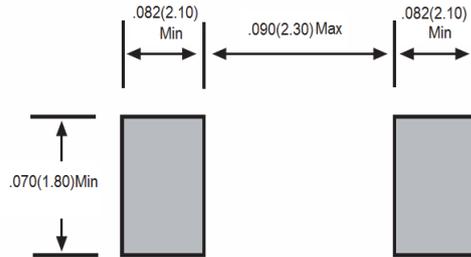


FIG.5-TYPICAL REVER CHARACTERISTICS



### Mounting Pad Layout



### Packing

Part number	Component Package	Quantity	Packaging Option
SS52A-SS520A	DO-214AC SMA	5000	Tape & Reel – 12mm/13" tape

### Tape and Reel Specification

