

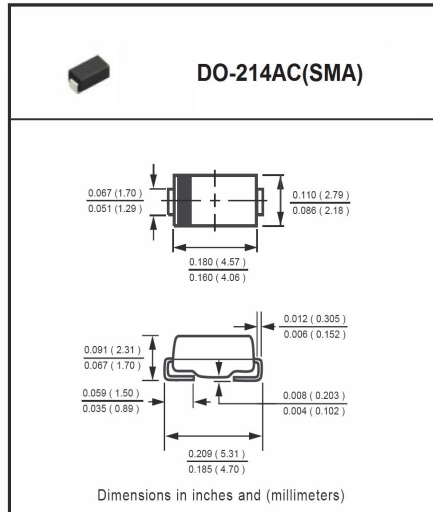


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表面安装肖特基二极管  
反向电压 20 --- 200 V  
正向电流 5.0A

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℃/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  $25^\circ\text{C}$  ambient temperature unless otherwise specified.

|                                                                                  | Symbols         | SS52A      | SS54A | SS55A | SS56A | SS58A | SS510A | SS515A | SS520A | Unit               |
|----------------------------------------------------------------------------------|-----------------|------------|-------|-------|-------|-------|--------|--------|--------|--------------------|
| 最大峰值反向电压<br>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<br>Maximum RMS voltage                                                 | $V_{RMS}$       | 14         | 28    | 35    | 42    | 56    | 70     | 105    | 140    | V                  |
| 最大直流阻断电压<br>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<br>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<br>Peak forward surge current 8.3 ms single half sine-wave | $I_{FSM}$       | 150        |       |       |       |       |        |        |        | A                  |
| 典型热阻<br>Typical thermal resistance                                               | $R_{\theta JA}$ | 55         |       |       |       |       |        |        |        | $^\circ\text{C/W}$ |
| 工作结温和存储温度<br>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  $25^\circ\text{C}$  ambient temperature unless otherwise specified.

|                                                                             | Symbols | SS52A   | SS54A | SS55A | SS56A | SS58A | SS510A | SS515A | SS520A | Unit |    |
|-----------------------------------------------------------------------------|---------|---------|-------|-------|-------|-------|--------|--------|--------|------|----|
| 最大正向电压 $I_F = 5.0A$<br>Maximum forward voltage                              | $V_F$   | 0.5     |       | 0.60  |       | 0.80  |        | 0.90   |        | V    |    |
| 最大反向漏电流 $I_A = 25^{\circ}C$<br>Maximum reverse current $T_A = 100^{\circ}C$ | $I_R$   | 1<br>50 |       |       |       |       |        |        |        |      | mA |
| 典型结电容 $V_R = 4.0V, f = 1MHz$<br>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

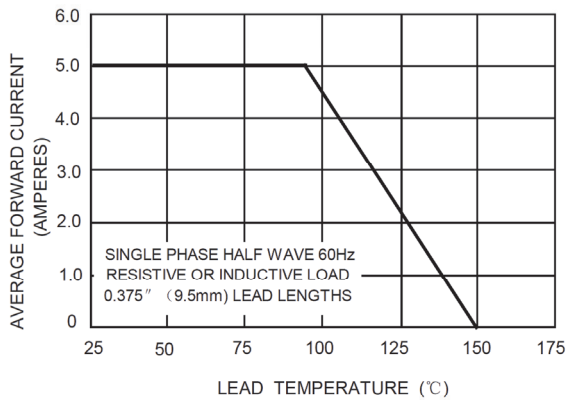


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

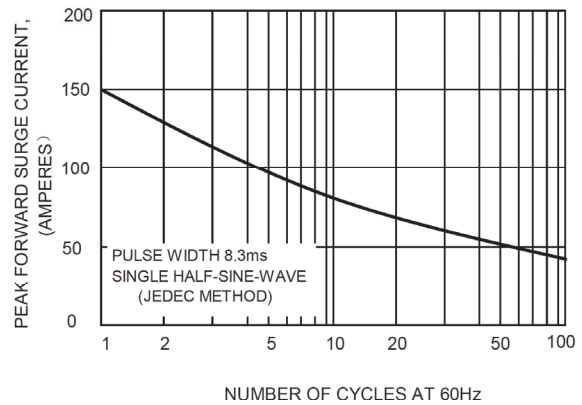


FIG.3 – TYPICAL JUNCTION CAPACITANCE

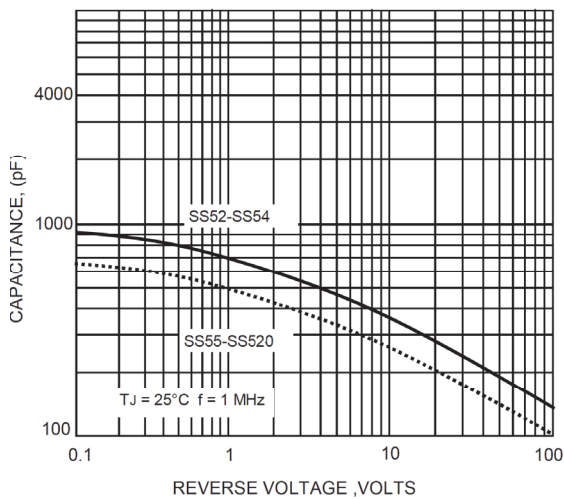


FIG.4-TYPICAL FORWARD CHARACTERISTICS

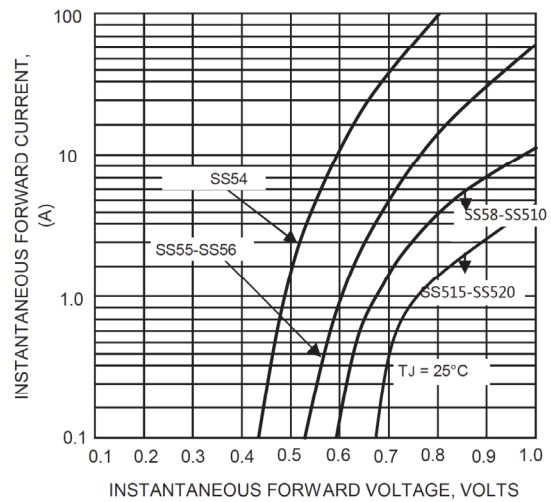
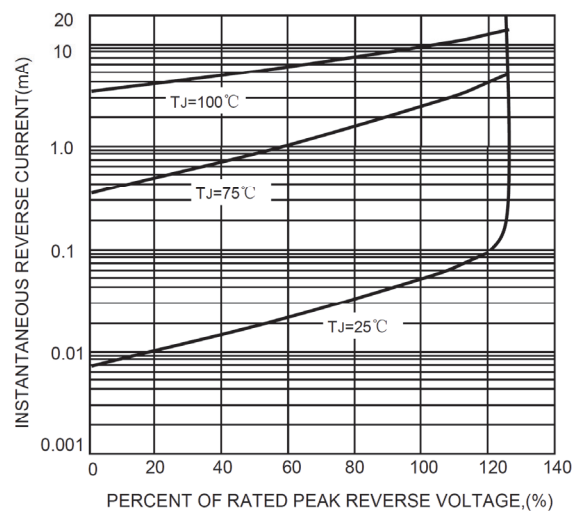
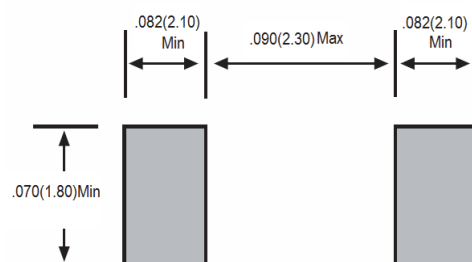


FIG.5-TYPICAL REVER CHARACTERISTICS



## 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

