

## SMA Schottky Barrier Rectifier Diode 肖特基势垒整流二极管

### ■Features 特点

Low forward voltage drop 低正向压降

High current capability 高电流能力

Surface mount device 表面贴装器件

Case 封装:SMA(DO-214AC)



### ■Maximum Rating 最大额定值

( $T_A=25^{\circ}\text{C}$  unless otherwise noted 如无特殊说明, 温度为  $25^{\circ}\text{C}$ )

| Characteristic<br>特性参数              | Symbol<br>符号    | SS12A                              | SS13A | SS14A | SS15A | SS16A | SS18A | SS19A | SS110A | Unit<br>单位                  |
|-------------------------------------|-----------------|------------------------------------|-------|-------|-------|-------|-------|-------|--------|-----------------------------|
| Marking 印字                          |                 | SS12                               | SS13  | SS14  | SS15  | SS16  | SS18  | SS19  | SS110  |                             |
| Peak Reverse Voltage<br>反向峰值电压      | $V_{RRM}$       | 20                                 | 30    | 40    | 50    | 60    | 80    | 90    | 100    | V                           |
| DC Reverse Voltage<br>直流反向电压        | $V_R$           | 20                                 | 30    | 40    | 50    | 60    | 80    | 90    | 100    | V                           |
| RMS Reverse Voltage<br>反向电压均方根值     | $V_{R(RMS)}$    | 14                                 | 21    | 28    | 35    | 42    | 56    | 63    | 70     | V                           |
| Forward Rectified Current<br>正向整流电流 | $I_F$           | 1                                  |       |       |       |       |       |       |        | A                           |
| Peak Surge Current<br>峰值浪涌电流        | $I_{FSM}$       | 30                                 |       |       |       |       |       |       |        | A                           |
| Thermal Resistance J-A<br>结到环境热阻    | $R_{\theta JA}$ | 50                                 |       |       |       |       |       |       |        | $^{\circ}\text{C}/\text{W}$ |
| Junction Temperature<br>结温          | $T_J$           | 150                                |       |       |       |       |       |       |        | $^{\circ}\text{C}$          |
| Storage Temperature<br>储藏温度         | $T_{stg}$       | $-65\text{to}+150^{\circ}\text{C}$ |       |       |       |       |       |       |        | $^{\circ}\text{C}$          |

### ■Electrical Characteristics 电特性

( $T_A=25^{\circ}\text{C}$  unless otherwise noted 如无特殊说明, 温度为  $25^{\circ}\text{C}$ )

| Characteristic<br>特性参数     | Symbol<br>符号                                         | SS12-SS14 | SS15-SS16 | SS18-SS110 | Unit<br>单位 | Condition<br>条件                      |
|----------------------------|------------------------------------------------------|-----------|-----------|------------|------------|--------------------------------------|
| Forward Voltage<br>正向电压    | $V_F$                                                | 0.55      | 0.70      | 0.85       | V          | $I_F=1\text{A}$                      |
| Reverse Current<br>反向电流    | $I_R(25^{\circ}\text{C})$<br>$(100^{\circ}\text{C})$ | 0.2<br>10 |           |            | mA         | $V_R=V_{RRM}$                        |
| Diode Capacitance<br>二极管电容 | $C_D$                                                | 110       |           |            | pF         | $V_R=4\text{V}$ ,<br>$f=1\text{MHz}$ |

## ■ Typical Characteristic Curve 典型特性曲线

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

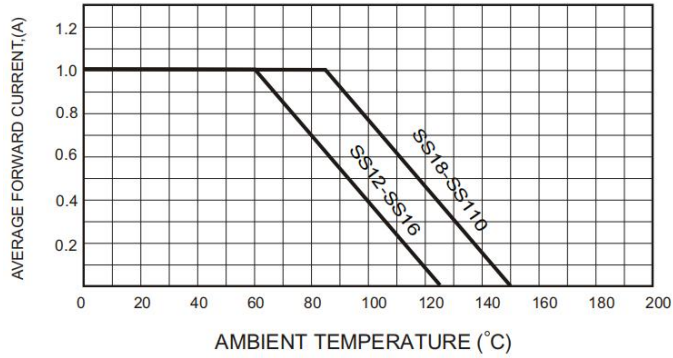


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

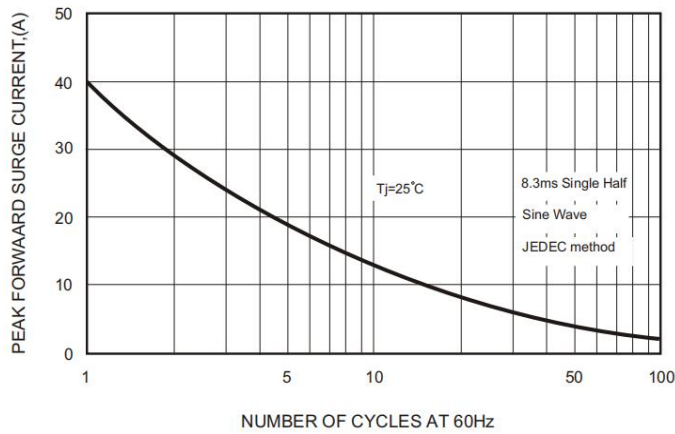


FIG.4-TYPICAL JUNCTION CAPACITANCE

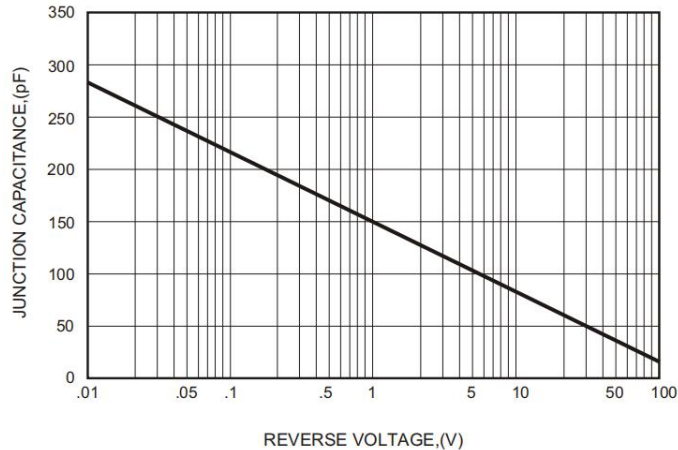


FIG.2-TYPICAL FORWARD CHARACTERISTICS

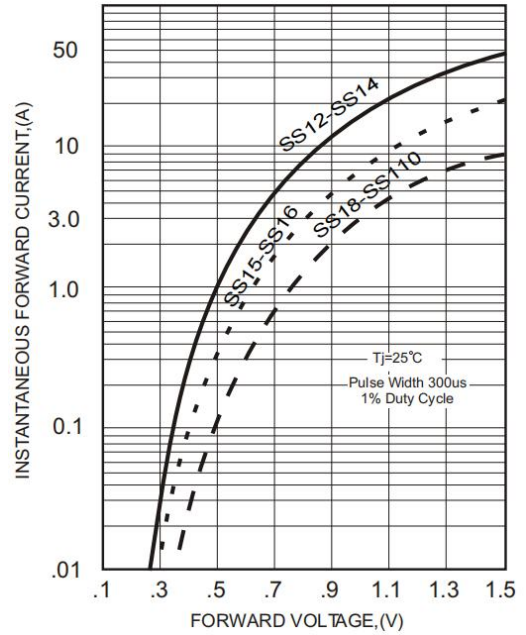
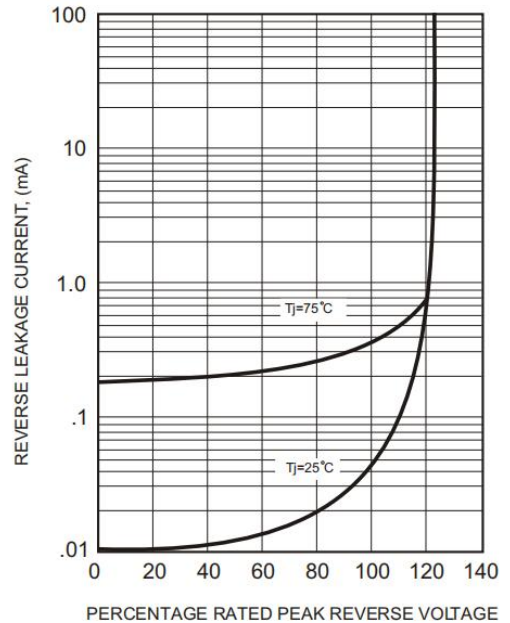


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



■Dimension 外形封装尺寸

**DO-214AC(SMA)**



Dimensions in inches and (millimeters)