

**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 特性参数              | Symbol 符号       | Max 最大值                      | Unit 单位                     |
|----------------------------------|-----------------|------------------------------|-----------------------------|
| Peak Reverse Voltage 反向峰值电压      | $V_{RRM}$       | 40                           | V                           |
| DC Reverse Voltage 直流反向电压        | $V_R$           | 40                           | V                           |
| RMS Reverse Voltage 反向电压均方根值     | $V_{R(RMS)}$    | 28                           | V                           |
| Forward Rectified Current 正向整流电流 | $I_F$           | 3                            | A                           |
| Peak Surge Current 峰值浪涌电流        | $I_{FSM}$       | 80                           | A                           |
| Thermal Resistance J-A 结到环境热阻    | $R_{\theta JA}$ | 88                           | $^{\circ}\text{C}/\text{W}$ |
| Junction Temperature 结温          | $T_J$           | 125                          | $^{\circ}\text{C}$          |
| Storage Temperature 储藏温度         | $T_{stg}$       | -55to+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 特性参数     | Symbol 符号  | Max 最大值   | Unit 单位 | Condition 条件                   |
|-------------------------|--|-----------|---------|--------------------------------|
| Forward Voltage 正向电压    | $V_F$  | 0.46      | V       | $I_F=3\text{A}$                |
| Reverse Current 反向电流    | $I_R(25^{\circ}\text{C})$<br>$(125^{\circ}\text{C})$ | 0.2<br>30 | mA      | $V_R=V_{RRM}$                  |
| Diode Capacitance 二极管电容 | $C_D$  | 240       | pF      | $V_R=4\text{V}, f=1\text{MHz}$ |

■ Typical Characteristic Curve 典型特性曲线

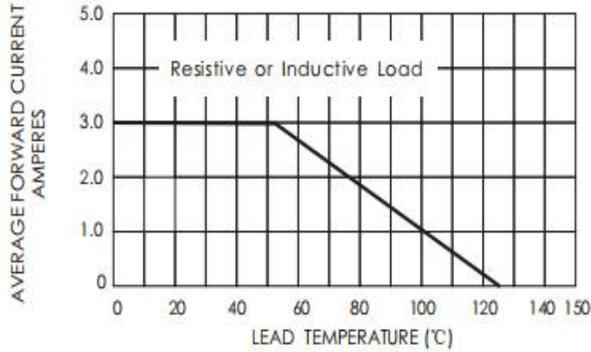


Figure 1: Forward Current Curve

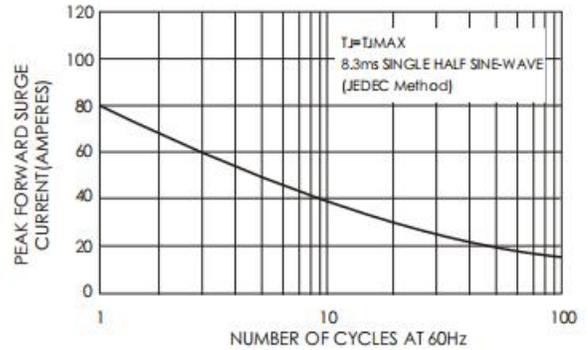


Figure 2: Forward Surge Current Curve

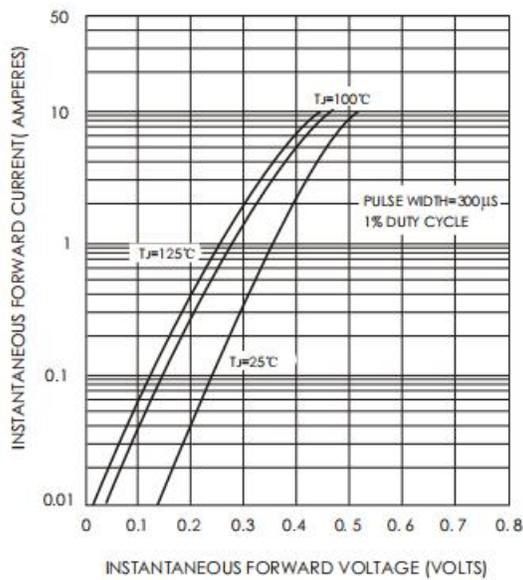


Figure 3: Forward Characteristics

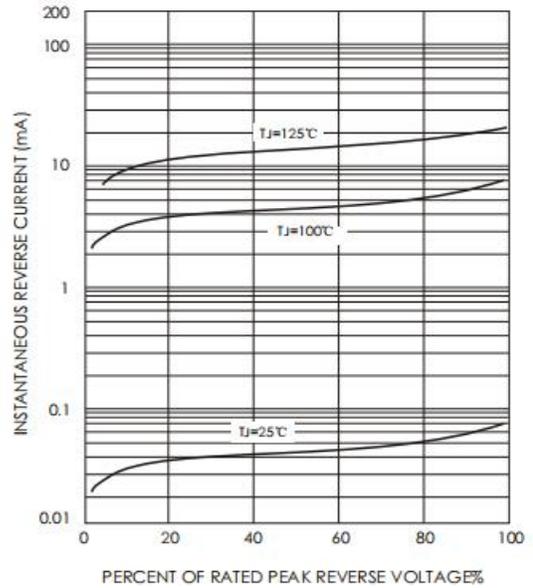


Figure 4: Reverse Characteristics

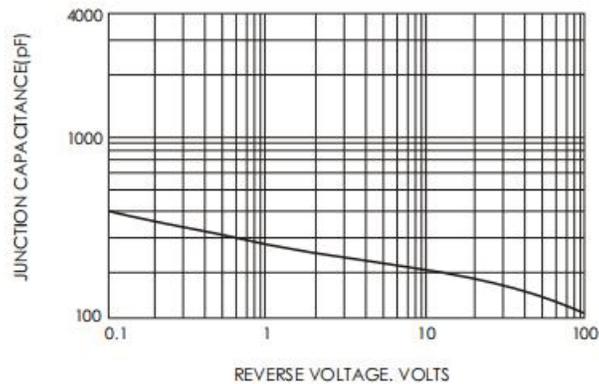
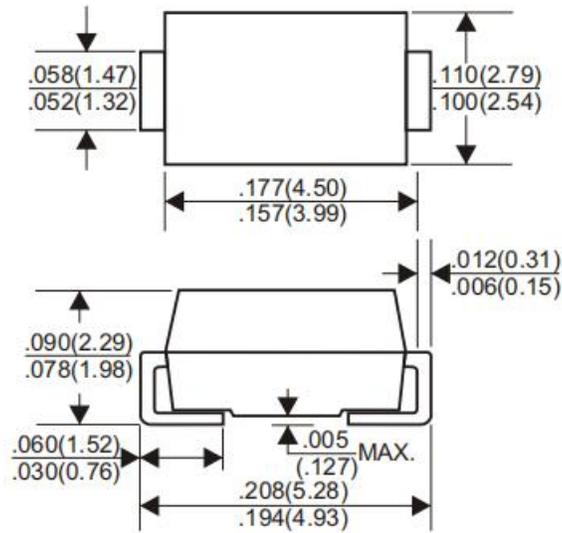


Figure 5: Capacitance Characteristics

■ Dimension 外形封装尺寸

**DO-214AC(SMA)**



Dimensions in inches and (millimeters)