

SMC 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:SMC(DO-214AB)



■ **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°C)

| Characteristic 特性参数 | Symbol 符号 | SS56LC | Unit 单位 |
|----------------------------------|-----------------|------------------------------|-----------------------------|
| Peak Reverse Voltage 反向峰值电压 | V_{RRM} | 60 | V |
| DC Reverse Voltage 直流反向电压 | V_R | 60 | V |
| RMS Reverse Voltage 反向电压均方根值 | $V_{R(RMS)}$ | 42 | V |
| Forward Rectified Current 正向整流电流 | I_F | 5 | A |
| Peak Surge Current 峰值浪涌电流 | I_{FSM} | 120 | A |
| Thermal Resistance J-A 结到环境热阻 | $R_{\theta JA}$ | 55 | $^{\circ}\text{C}/\text{W}$ |
| 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°C)

| Characteristic 特性参数 | Symbol 符号 | SS56LC | Unit 单位 | Condition 条件 |
|-------------------------|--|------------|---------|--------------------------------|
| Forward Voltage 正向电压 | V_F | 0.55 | V | $I_F=5\text{A}$ |
| Reverse Current 反向电流 | $I_R(25^{\circ}\text{C})$ (125°C) | 0.15 30 | mA | $V_R=V_{RRM}$ |
| Diode Capacitance 二极管电容 | C_D | 370 | pF | $V_R=4\text{V}, f=1\text{MHz}$ |

■ Typical Characteristic Curve 典型特性曲线

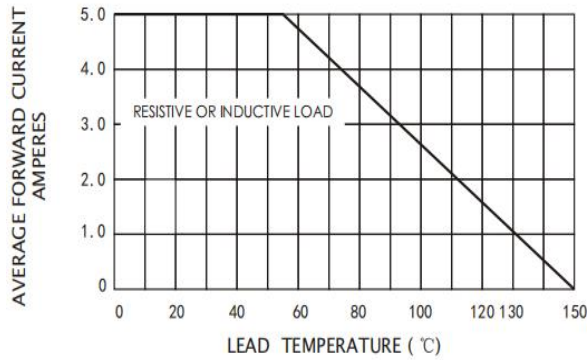


Figure 1: Forward Current Curve

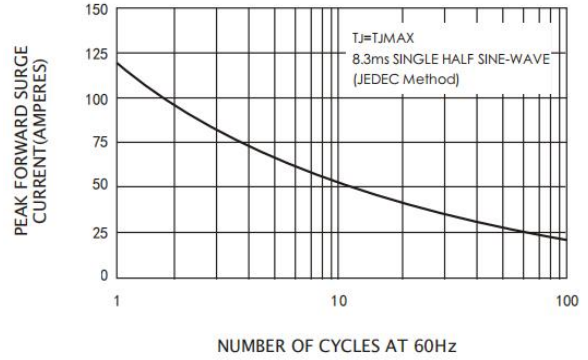


Figure 2: Forward Surge Current Curve

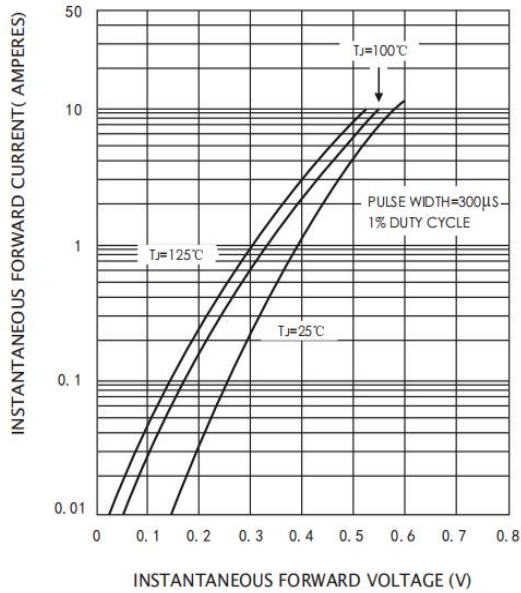


Figure 3: Forward Characteristics

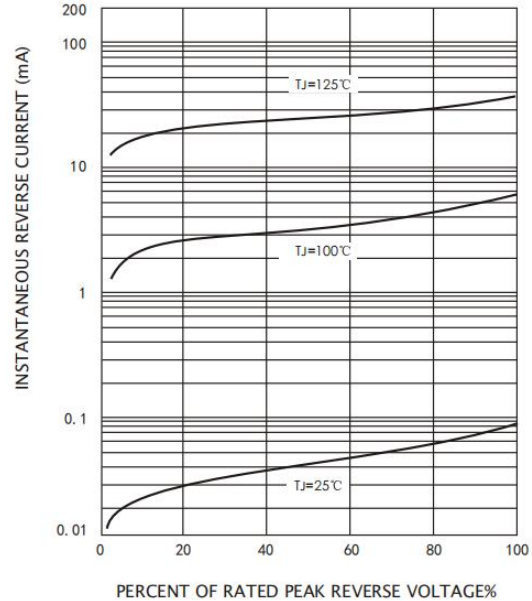


Figure 4: Reverse Characteristics

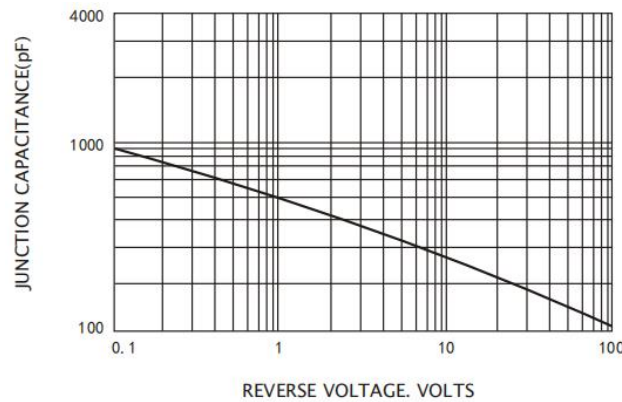
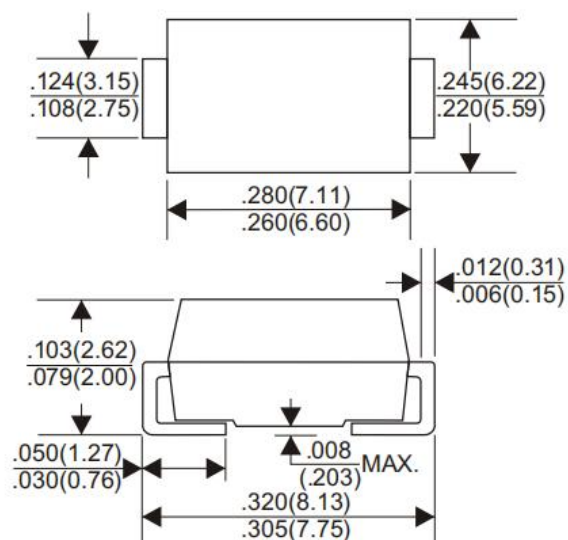


Figure 5: Capacitance Characteristics

■Dimension 外形封装尺寸

DO-214AB(SMC)



Dimensions in inches and (millimeters)