

## SMBF 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:SMBF



### ■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       | SS54LBF                            | 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 | $I_F$           | 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    | $R_{\theta JA}$ | 70                                 | $^{\circ}\text{C}/\text{W}$ |
| Junction Temperature 结温          | $T_J$           | 125                                | $^{\circ}\text{C}$          |
| Storage Temperature 储藏温度         | $T_{stg}$       | $-55\text{to}+150^{\circ}\text{C}$ | $^{\circ}\text{C}$          |

### ■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 特性参数     | Symbol 符号                                            | SS54LBF   | Unit 单位 | Condition 条件                   |
|-------------------------|------------------------------------------------------|-----------|---------|--------------------------------|
| Forward Voltage 正向电压    | $V_F$                                                | 0.48      | V       | $I_F=5\text{A}$                |
| Reverse Current 反向电流    | $I_R(25^{\circ}\text{C})$<br>$(100^{\circ}\text{C})$ | 0.2<br>50 | mA      | $V_R=V_{RRM}$                  |
| Diode Capacitance 二极管电容 | $C_D$                                                | 380       | pF      | $V_R=4\text{V}, f=1\text{MHz}$ |

## ■ Typical Characteristic Curve 典型特性曲线

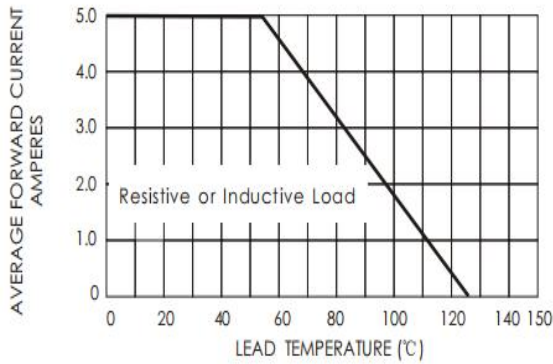


Figure 1: Forward Current Curve

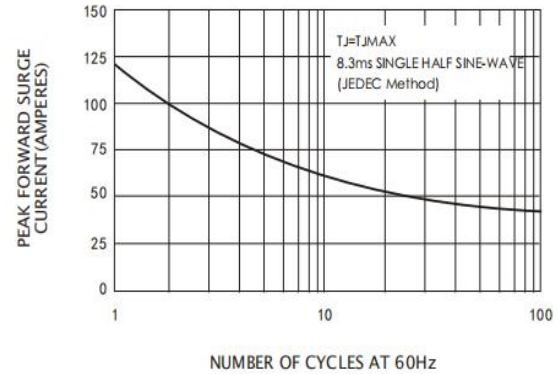


Figure 2: Forward Surge Current Curve

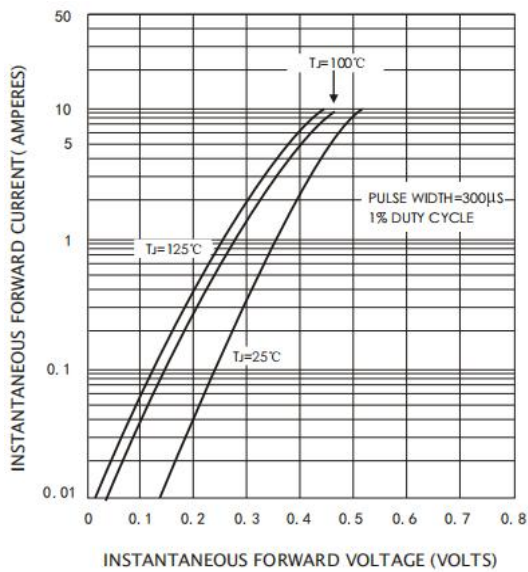


Figure 3: Forward Characteristics

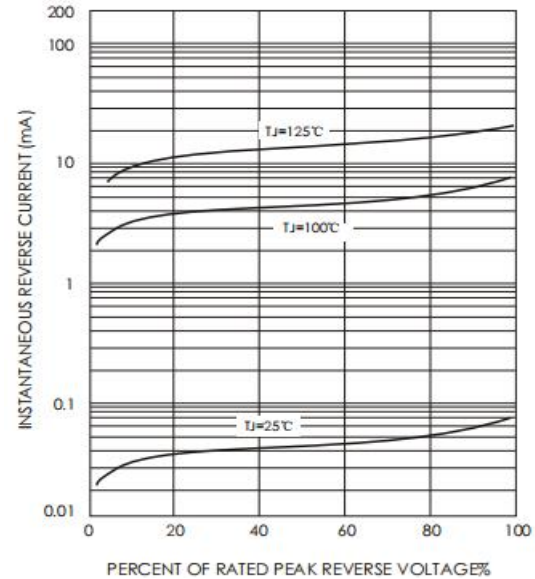


Figure 4: Reverse Characteristics

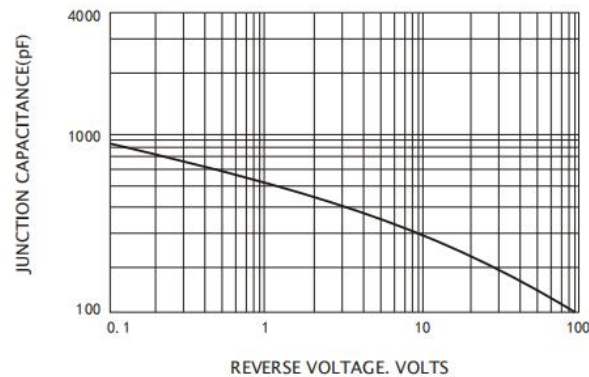
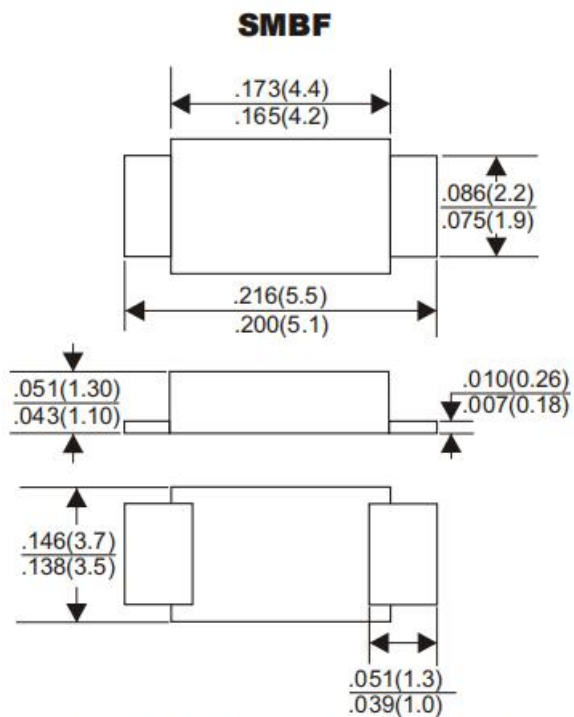


Figure 5: Capacitance Characteristics

■Dimension 外形封装尺寸



Dimensions in inches and (millimeters)