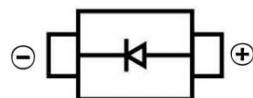


## SMB General Purpose Rectifier Diode 通用整流二极管

### ■Features 特点

Glass passivated junction 玻璃钝化结  
Low reverse leakage current 低反向漏电流  
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:SMB(DO-214AA)



### ■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       | S5 AB                                                   | S5 BB | S5 DB | S5 GB | S5 JB | S5 KB | S5 MB | Unit 单位                     |
|------------------------------------------|-----------------|---------------------------------------------------------|-------|-------|-------|-------|-------|-------|-----------------------------|
| Marking 印字                               |                 | S5A                                                     | S5B   | S5D   | S5G   | S5J   | S5K   | S5M   |                             |
| Peak Reverse Voltage 反向峰值电压              | $V_{RRM}$       | 50                                                      | 100   | 200   | 400   | 600   | 800   | 1000  | V                           |
| DC Reverse Voltage 直流反向电压                | $V_R$           | 50                                                      | 100   | 200   | 400   | 600   | 800   | 1000  | V                           |
| RMS Reverse Voltage RMS 反向电压             | $V_{R(RMS)}$    | 35                                                      | 70    | 140   | 280   | 420   | 560   | 700   | 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            | $R_{\theta JA}$ | 13                                                      |       |       |       |       |       |       | $^{\circ}\text{C}/\text{W}$ |
| Junction and Storage Temperature 结温和储藏温度 | $T_J, T_{stg}$  | $150^{\circ}\text{C}, -55\text{to}+150^{\circ}\text{C}$ |       |       |       |       |       |       |                             |

### ■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 | Min 最小值                                                   | Typ 典型值 | Max 最大值  | Unit 单位       | Condition 条件                   |
|-------------------------|-----------|-----------------------------------------------------------|---------|----------|---------------|--------------------------------|
| Forward Voltage 正向电压    | $V_F$     |                                                           | 1.0     | 1.1      | V             | $I_F=5\text{A}$                |
| Reverse Current 反向电流    | $I_R$     | $(T_A=25^{\circ}\text{C})$<br>$(T_A=125^{\circ}\text{C})$ |         | 5<br>250 | $\mu\text{A}$ | $V_R=V_{RRM}$                  |
| Diode Capacitance 二极管电容 | $C_D$     |                                                           | 60      |          | pF            | $V_R=4\text{V}, f=1\text{MHz}$ |

## ■ Typical Characteristic Curve 典型特性曲线

FIG.1-TYPICAL FORWARD CHARACTERISTICS

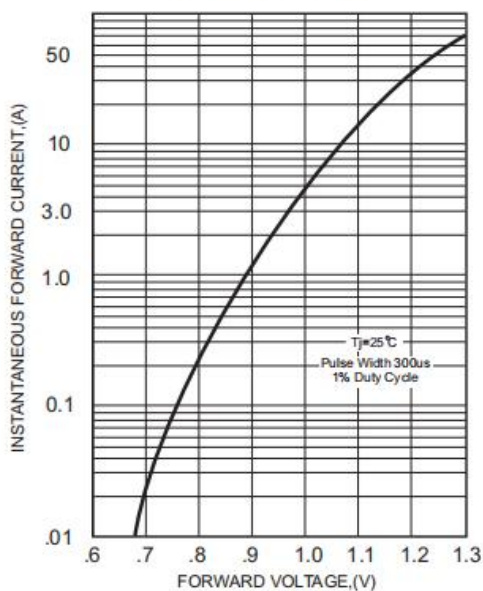


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

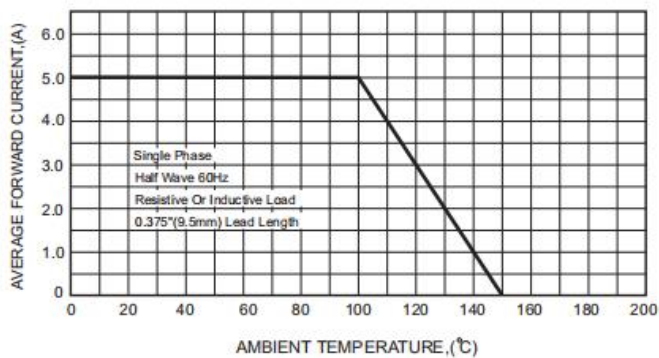


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

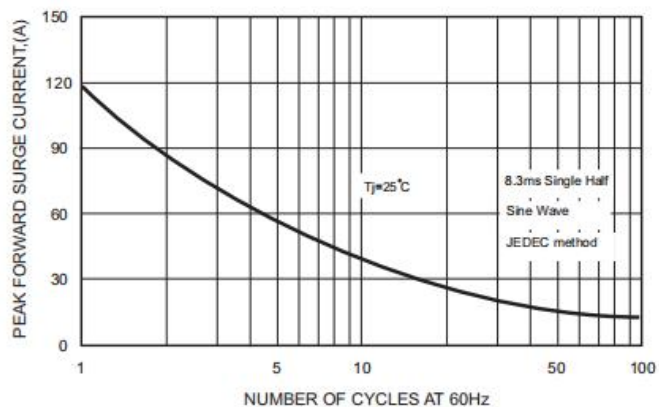


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

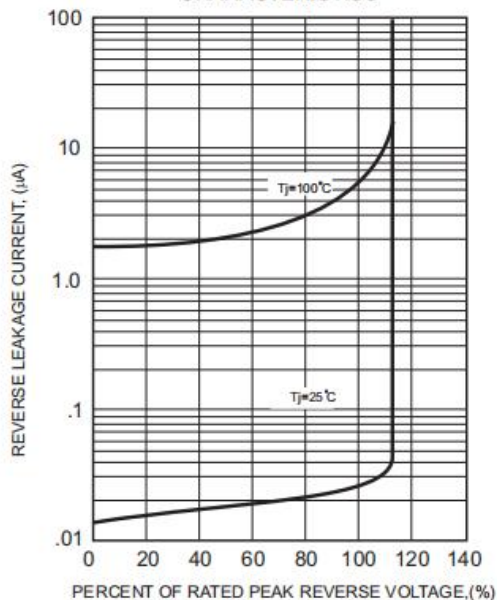
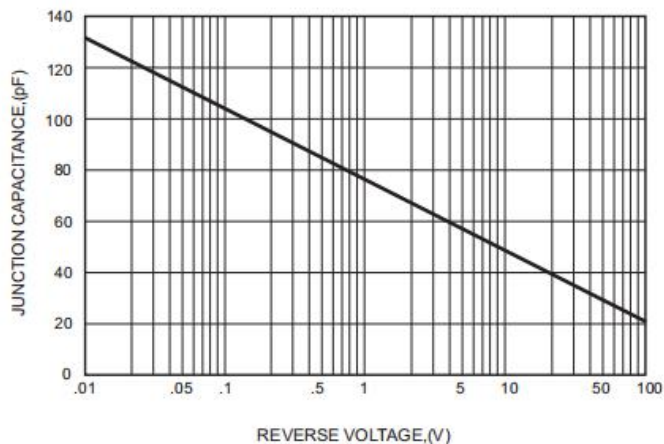
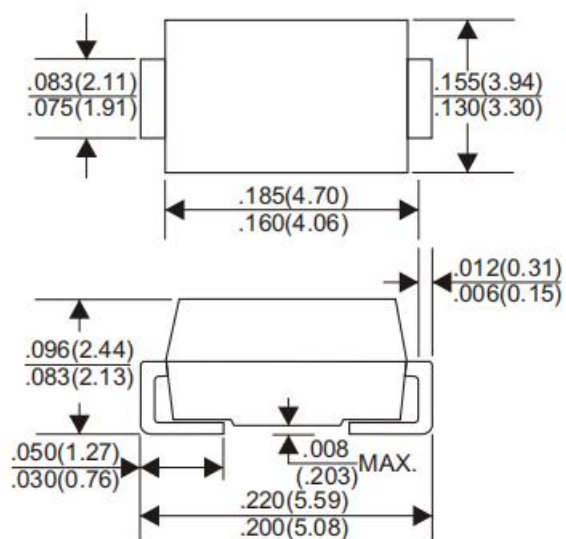


FIG.5-TYPICAL JUNCTION CAPACITANCE



■Dimension 外形封装尺寸

**DO-214AA(SMB)**



Dimensions in inches and (millimeters)