

## 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)

**HF** **RoHS**



### ■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       | S3AB<br>-6AF                                                        | S3BB<br>-6AF | S3DB<br>-6AF | S3GB<br>-6AF | S3JB<br>-6AF | S3KB<br>-6AF | S3MB<br>-6AF | Unit 单位                     |
|------------------------------------------|-----------------|---------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------------------------|
| 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 反向电压均方根值             | $V_{R(RMS)}$    | 35                                                                  | 70           | 140          | 280          | 420          | 560          | 700          | V                           |
| Forward Rectified Current 正向整流电流         | $I_F$           | 3                                                                   |              |              |              |              |              |              | A                           |
| Peak Surge Current 峰值浪涌电流                | $I_{FSM}$       | 100                                                                 |              |              |              |              |              |              | 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 | $T_J, T_{stg}$  | $150^{\circ}\text{C}, -55^{\circ}\text{C to } +150^{\circ}\text{C}$ |              |              |              |              |              |              |                             |

### ■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    | $V_F$     |         |         | 1.1      | V             | $I_F=3\text{A}$                                                   |
| Reverse Current 反向电流    | $I_R$     |         |         | 5<br>250 | $\mu\text{A}$ | $V_R=V_{RRM} T_a=25^{\circ}\text{C}$<br>$T_a=125^{\circ}\text{C}$ |
| 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

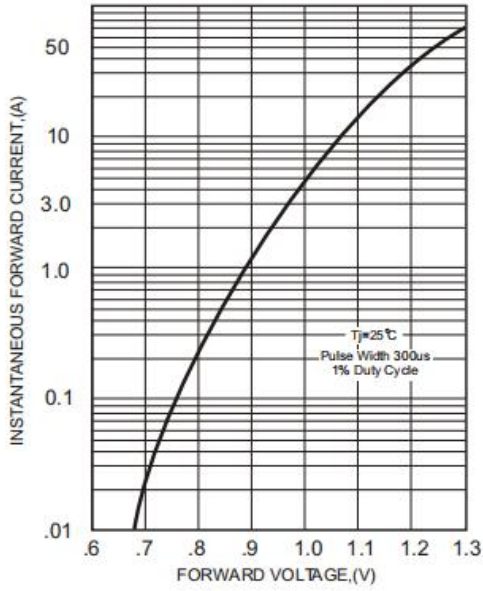


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

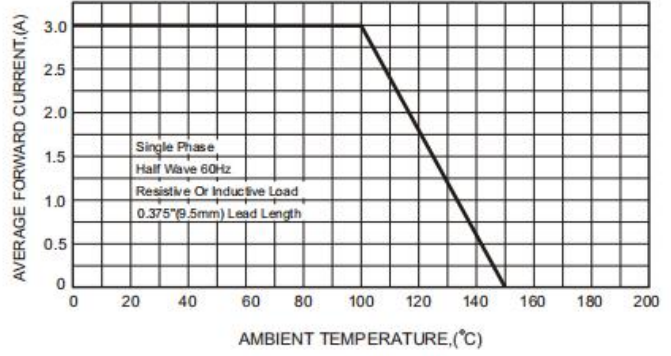


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

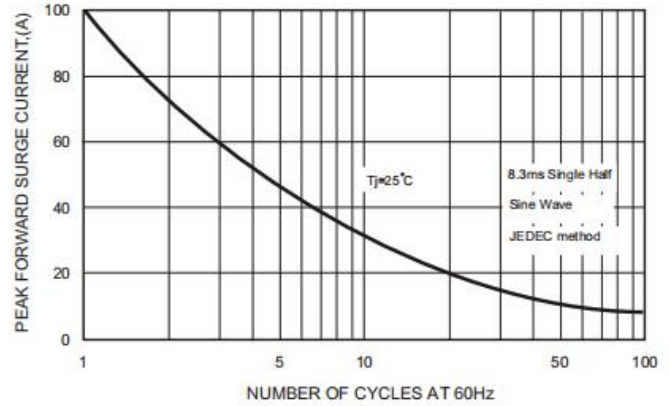


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

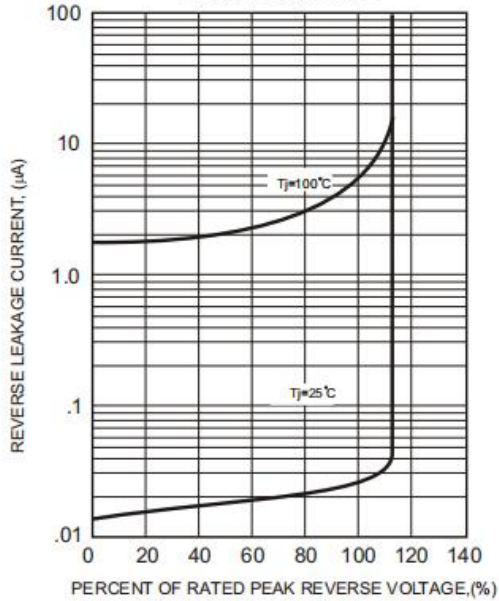
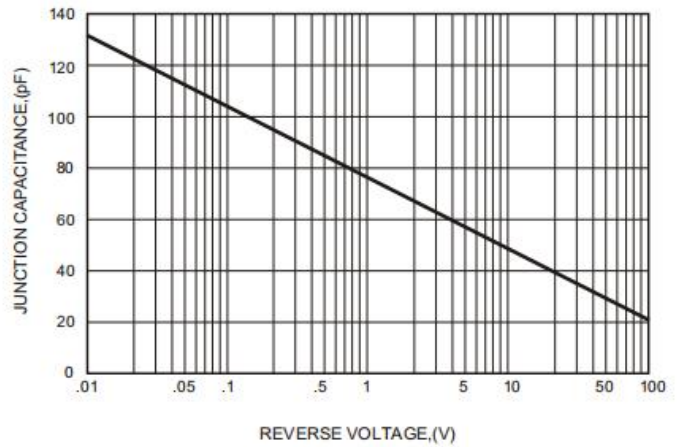
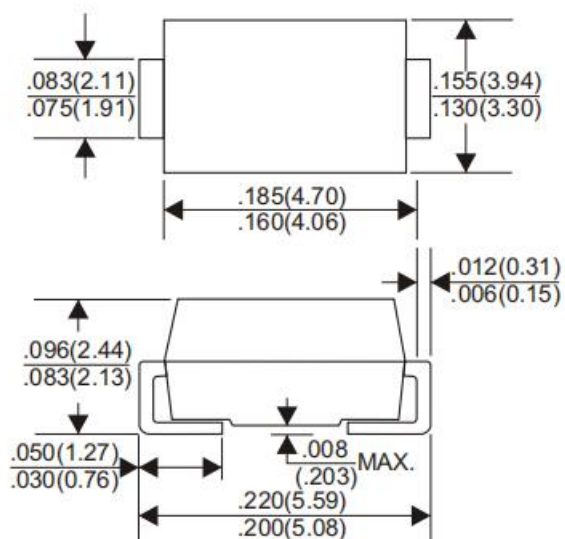


FIG.5-TYPICAL JUNCTION CAPACITANCE



■Dimension 外形封装尺寸

**DO-214AA(SMB)**



Dimensions in inches and (millimeters)