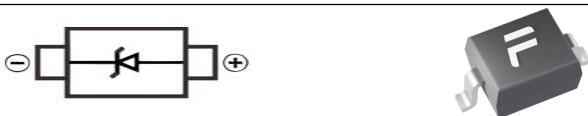


**SOD-323 Schottky Barrier Diode 肖特基势垒二极管**
**Internal Configuration & Device Marking 内部结构与产品打标**

|         |                                                                                    |  |  |
|---------|------------------------------------------------------------------------------------|--|--|
| Type 型号 | BAT46WS                                                                            |  |  |
| Pin 管脚  |  |  |  |
| Mark 打标 | S9                                                                                 |  |  |

**Absolute Maximum Ratings 最大额定值**

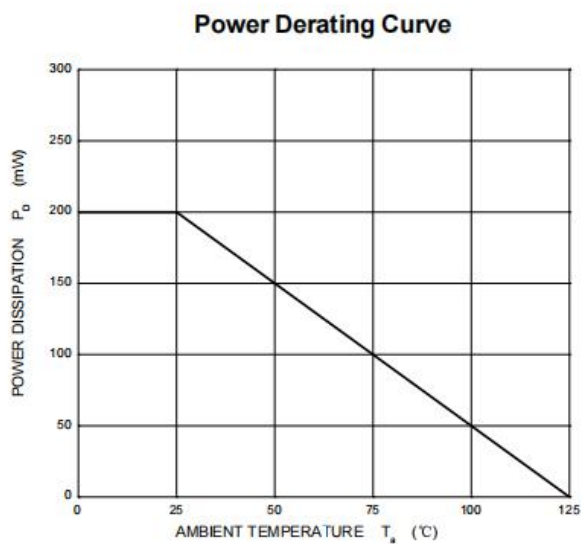
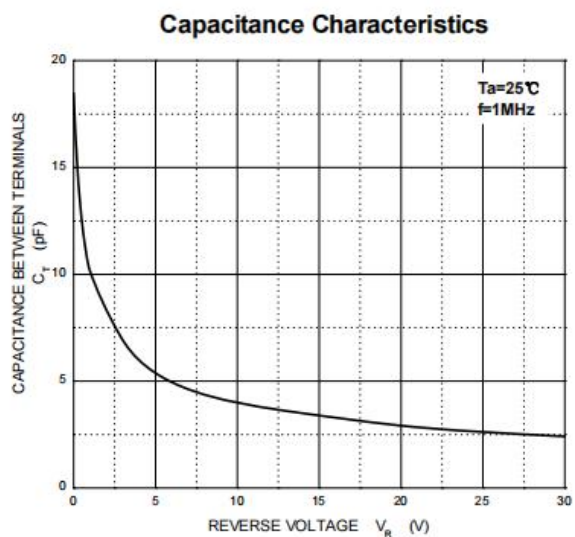
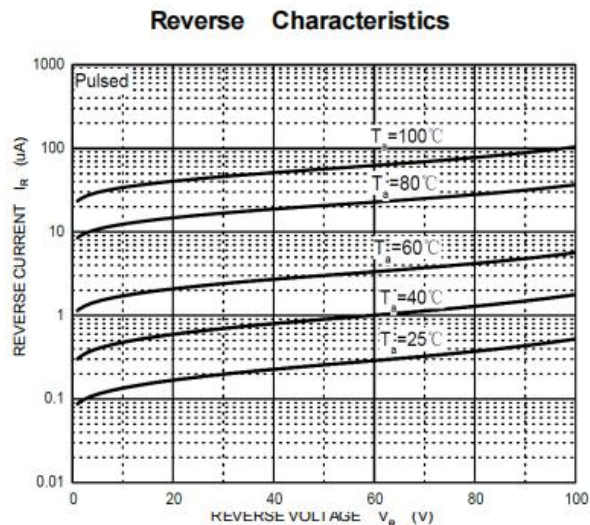
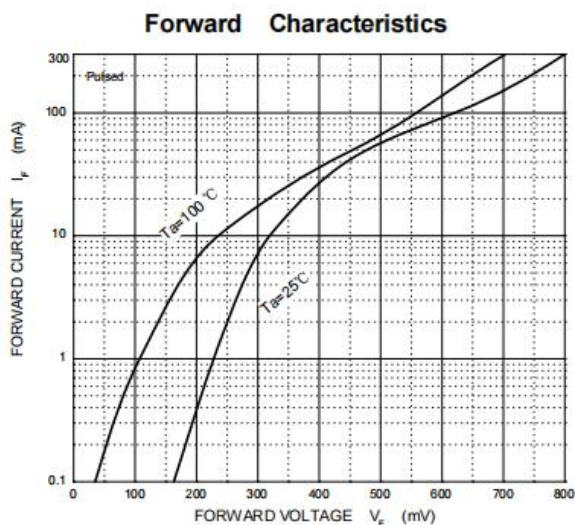
| Characteristic 特性参数                      | Symbol 符号                   | Rat 额定值                    | Unit 单位                   |
|------------------------------------------|-----------------------------|----------------------------|---------------------------|
| Peak Reverse Voltage 反向峰值电压              | $V_{RRM}$                   | 100                        | V                         |
| Reverse Work Voltage 反向工作电压              | $V_{RWM}$                   |                            |                           |
| Forward Work Current 正向工作电流              | $I_F(I_O)$                  | 150                        | mA                        |
| Repetitive Peak Forward Current 重复正向峰值电流 | $I_{FRM}$                   | 350                        | mA                        |
| Surge Peak Forward Current 正向峰值浪涌电流      | $I_{FSM}$                   | 750                        | mA                        |
| Power dissipation 耗散功率                   | $P_D(T_a=25^\circ\text{C})$ | 200                        | mW                        |
| Thermal Resistance J-A 结到环境热阻            | $R_{\theta JA}$             | 500                        | $^\circ\text{C}/\text{W}$ |
| Junction Temperature 结温                  | $T_J$                       | -40to+125 $^\circ\text{C}$ |                           |
| Storage Temperature 储藏温度                 | $T_{stg}$                   | -55to+150 $^\circ\text{C}$ |                           |

**Electrical Characteristics 电特性**

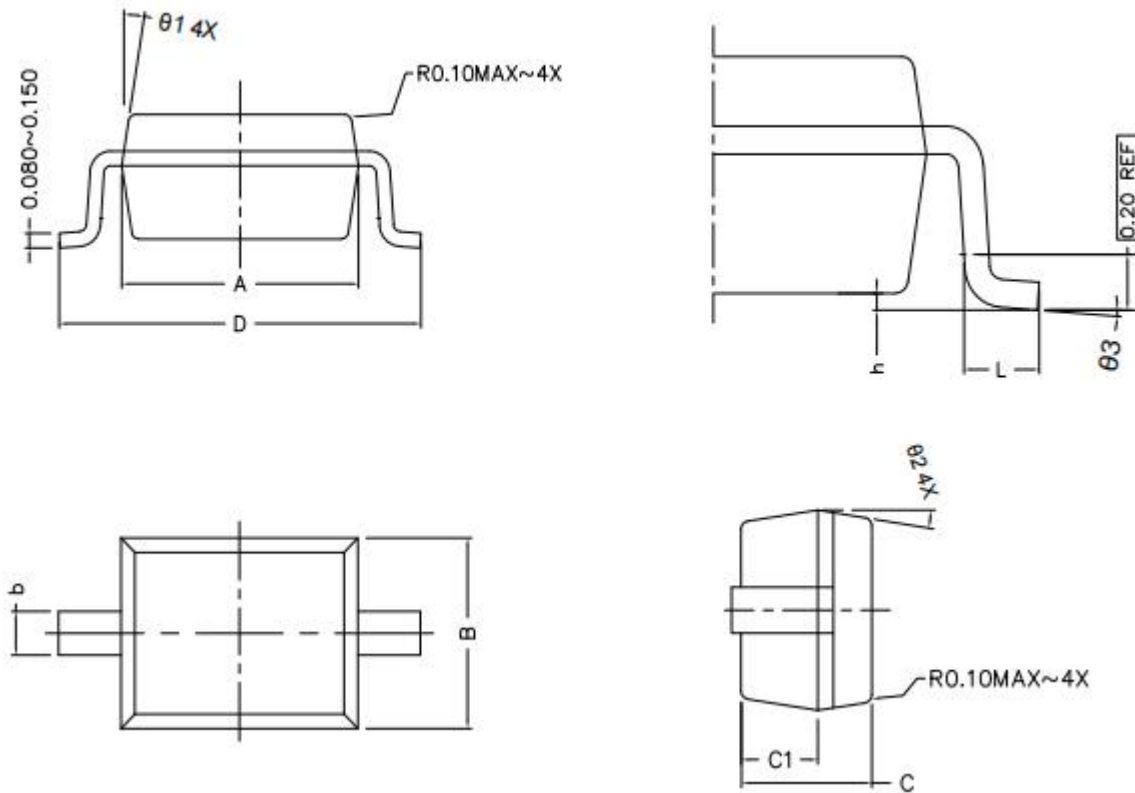
( $T_A=25^\circ\text{C}$  unless otherwise noted 如无特殊说明, 温度为 25 $^\circ\text{C}$ )

| Characteristic 特性参数                                                                                  | Symbol 符号  | Min 最小值 | Max 最大值           | Unit 单位       |
|------------------------------------------------------------------------------------------------------|------------|---------|-------------------|---------------|
| Reverse Breakdown Voltage 反向击穿电压( $I_R=100\mu\text{A}$ )                                             | $V_{(BR)}$ | 100     | —                 | V             |
| Reverse Leakage Current( $V_R=10\text{V}$ )<br>反向漏电流( $V_R=50\text{V}$ )<br>( $V_R=75\text{V}$ )     | $I_R$      | —       | 0.5<br>1<br>2     | $\mu\text{A}$ |
| Forward Voltage( $I_F=0.1\text{mA}$ )<br>正向电压( $I_F=10\text{mA}$ )<br>( $I_F=250\text{mA}$ )         | $V_F$      |         | 0.25<br>0.45<br>1 | V             |
| Diode Capacitance( $V_R=0\text{V}$ , $f=1\text{MHz}$ )<br>二极管电容( $V_R=1\text{V}$ , $f=1\text{MHz}$ ) | $C_D$      | —       | 20<br>12          | pF            |

■ Typical Characteristic Curve 典型特性曲线



■Dimension 外形封装尺寸



| Symbol     | Dimensions In Millimeters |           | Dimensions In Inches |           |
|------------|---------------------------|-----------|----------------------|-----------|
|            | Min                       | Max       | Min                  | Max       |
| A          | 1.600                     | 1.800     | 0.063                | 0.071     |
| B          | 1.200                     | 1.400     | 0.047                | 0.055     |
| C          | 0.750                     | 0.950     | 0.030                | 0.037     |
| C1         | 0.450                     | 0.550     | 0.018                | 0.022     |
| D          | 2.450                     | 2.800     | 0.096                | 0.110     |
| L          | 0.200                     | 0.400     | 0.008                | 0.016     |
| b          | 0.200                     | 0.400     | 0.008                | 0.016     |
| h          | 0.020                     | 0.120     | 0.001                | 0.005     |
| $\theta 3$ | $0^\circ$                 | $8^\circ$ | $0^\circ$            | $8^\circ$ |