

### ■特征 Features

- $I_o$  1A
- VRRM 50V-1000V
- 耐正向浪涌电流能力高
- High surge current capability

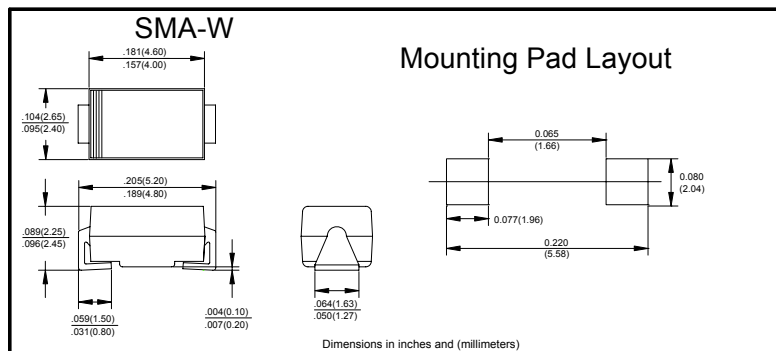
### ■用途 Applications

- 整流用 Rectifier

### ■极限值（绝对最大额定值）

#### Limiting Values (Absolute Maximum Rating)

### ■外形尺寸和印记 Outline Dimensions and Mark



| 参数名称<br>Item                                        | 符号<br>Symbol | 单位<br>Unit       | 条件<br>Conditions                                                                                        | RS         |     |     |     |     |     |      |
|-----------------------------------------------------|--------------|------------------|---------------------------------------------------------------------------------------------------------|------------|-----|-----|-----|-----|-----|------|
|                                                     |              |                  |                                                                                                         | 1A         | 1B  | 1D  | 1G  | 1J  | 1K  | 1M   |
| 反向重复峰值电压<br>Repetitive Peak Reverse Voltage         | $V_{RRM}$    | V                |                                                                                                         | 50         | 100 | 200 | 400 | 600 | 800 | 1000 |
| 正向平均电流<br>Average Forward Current                   | $I_{F(AV)}$  | A                | 正弦半波 60Hz, 电阻负载, $T_a=50^\circ\text{C}$<br>60Hz Half-sine wave, Resistance load, $T_a=50^\circ\text{C}$ | 1          |     |     |     |     |     |      |
| 正向（不重复）浪涌电流<br>Surge(Non-repetitive)Forward Current | $I_{FSM}$    | A                | 正弦半波 60Hz, 一个周期, $T_a=25^\circ\text{C}$<br>60Hz Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$         | 30         |     |     |     |     |     |      |
| 结温<br>Junction Temperature                          | $T_J$        | $^\circ\text{C}$ |                                                                                                         | -55~+125   |     |     |     |     |     |      |
| 储存温度<br>Storage Temperature                         | $T_{STG}$    | $^\circ\text{C}$ |                                                                                                         | -55 ~ +150 |     |     |     |     |     |      |

### ■电特性（ $T_a=25^\circ\text{C}$ 除非另有规定）

#### Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

| 参数名称<br>Item                          | 符号<br>Symbol      | 单位<br>Unit | 测试条件<br>Test Condition                                            |                      | RS  |    |    |     |     |    |    |
|---------------------------------------|-------------------|------------|-------------------------------------------------------------------|----------------------|-----|----|----|-----|-----|----|----|
|                                       |                   |            |                                                                   |                      | 1A  | 1B | 1D | 1G  | 1J  | 1K | 1M |
| 正向峰值电压<br>Peak Forward Voltage        | V <sub>FM</sub>   | V          | I <sub>FM</sub> =1.0A                                             |                      | 1.3 |    |    |     |     |    |    |
| 反向峰值电流<br>Peak Reverse Current        | I <sub>RRM1</sub> | μA         | V <sub>RM</sub> =V <sub>RRM</sub>                                 | T <sub>a</sub> =25℃  | 5   |    |    |     |     |    |    |
|                                       | I <sub>RRM2</sub> |            |                                                                   | T <sub>a</sub> =125℃ | 50  |    |    |     |     |    |    |
| 反向恢复时间<br>Reverse Recovery time       | t <sub>tr</sub>   | ns         | I <sub>F</sub> =0.5A I <sub>R</sub> =1A<br>I <sub>RR</sub> =0.25A |                      | 150 |    |    | 250 | 500 |    |    |
| 热阻(典型)<br>Thermal Resistance(Typical) | R <sub>θJ-A</sub> | ℃/W        | 结和环境之间<br>Between junction and ambient                            |                      | 55  |    |    |     |     |    |    |
|                                       | R <sub>θJ-L</sub> |            | 结和引线之间<br>Between junction and lead                               |                      | 25  |    |    |     |     |    |    |

## ■特性曲线（典型） Characteristics(Typical)

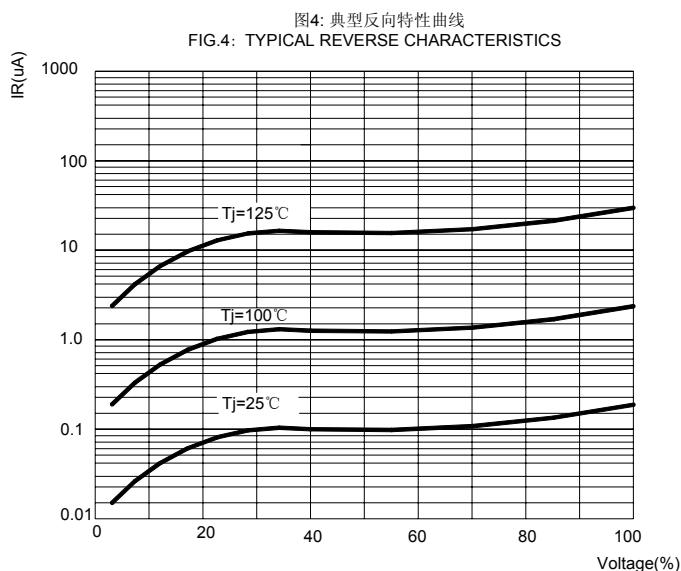
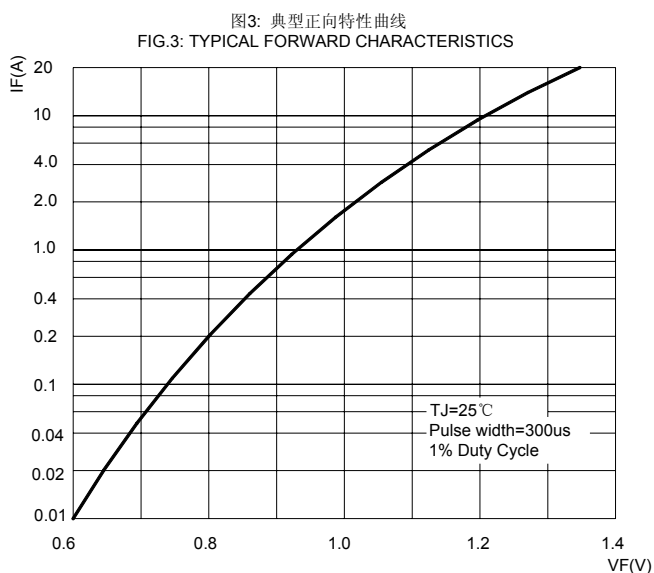
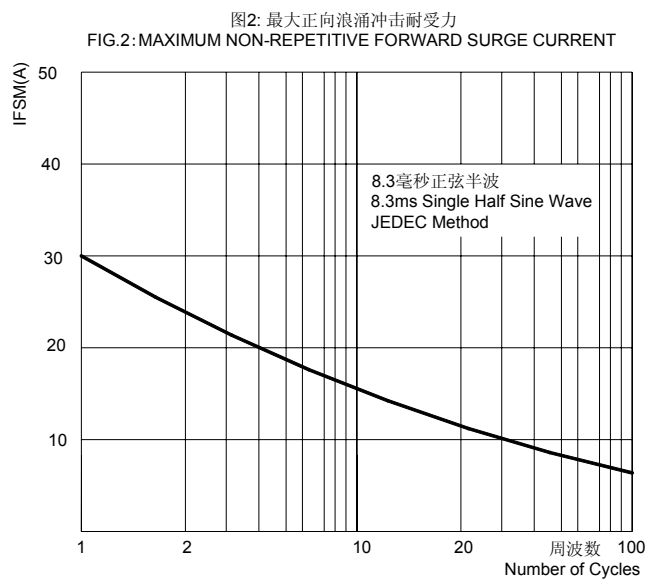
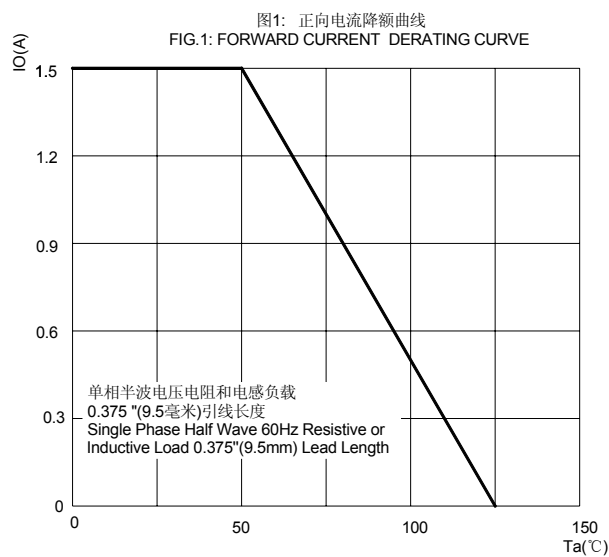


图5: 反向恢复时间试验电路及测试波形示意图  
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

