



## 超快恢复整流二极管 Super Fast Recovery Rectifier Diode

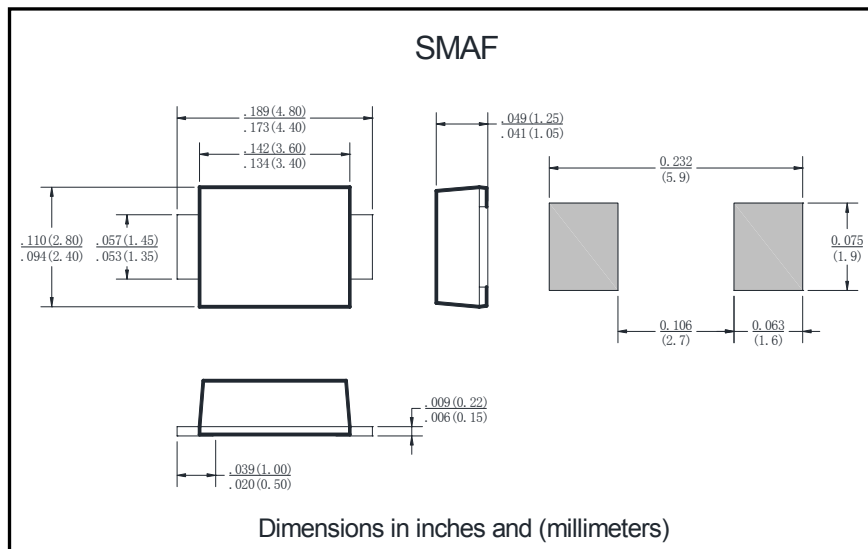
## ■特征 Features

- $I_o$  2.0A
- $V_{RRM}$  50V~600V
- 玻璃钝化芯片  
Glass passivated chip
- 耐正向浪涌电流能力高  
High surge forward current capability

## ■用途 Applications

- 作一般电源单相整流  
For general power supply  
single-phase rectifier

## ■外形尺寸 Outline Dimensions and Mark



## ■极限值（绝对最大额定值）

## Limiting Values (Absolute Maximum Rating)

| 参数名称<br>Item                                         | 符号<br>Symbol | 单位<br>Unit         | 条件<br>Conditions                                                                                     | E2         |     |     |     |     |     |
|------------------------------------------------------|--------------|--------------------|------------------------------------------------------------------------------------------------------|------------|-----|-----|-----|-----|-----|
|                                                      |              |                    |                                                                                                      | AF         | BF  | DF  | FF  | GF  | JF  |
| 反向重复峰值电压<br>Repetitive Peak Reverse Voltage          | $V_{RRM}$    | V                  |                                                                                                      | 50         | 100 | 200 | 300 | 400 | 600 |
| 平均整流输出电流<br>Average Rectified Output Current         | $I_o$        | A                  | 60Hz单向半波, 电阻负载, $T_a=75^{\circ}\text{C}$<br>60Hz One-way half-wave, R-load, $T_a=75^{\circ}\text{C}$ | 2.0        |     |     |     |     |     |
| 正向（不重复）浪涌电流<br>Surge(Non-repetitive) Forward Current | $I_{FSM}$    | A                  | 60Hz正弦波, 一个周期, $T_j=25^{\circ}\text{C}$<br>60Hz sine wave, 1 cycle, $T_j=25^{\circ}\text{C}$         | 50         |     |     |     |     |     |
| 存储温度<br>Storage Temperature                          | $T_{stg}$    | $^{\circ}\text{C}$ |                                                                                                      | -55 ~ +150 |     |     |     |     |     |
| 结温<br>Junction Temperature                           | $T_j$        | $^{\circ}\text{C}$ |                                                                                                      | -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                                             | E2  |    |    |     |    |     |
|-------------------------------------------|-------------------|------------|--------------------------------------------------------------------|-----|----|----|-----|----|-----|
|                                           |                   |            |                                                                    | AF  | BF | DF | FF  | GF | JF  |
| 正向峰值电压<br>Peak Forward Voltage            | V <sub>FM</sub>   | V          | I <sub>FM</sub> =2.0A                                              | 1.0 |    |    | 1.3 |    | 1.7 |
| 最大反向恢复时间<br>Maximum reverse recovery time | t <sub>rr</sub>   | ns         | I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>RR</sub> =0.25A | 35  |    |    |     |    |     |
| 反向峰值电流<br>Peak Reverse Current            | I <sub>RRM</sub>  | μA         | V <sub>RM</sub> =V <sub>RRM</sub> , Ta=25℃                         | 5   |    |    |     |    |     |
| 热阻<br>Thermal Resistance                  | R <sub>θJ-L</sub> | ℃/W        | 结和引线之间<br>Between junction and lead                                | 20  |    |    |     |    |     |

## ■特性曲线（典型） Characteristics(Typical)

图1:  $I_o$ - $T_a$ 曲线  
FIG1: $I_o$ - $T_a$  Curve

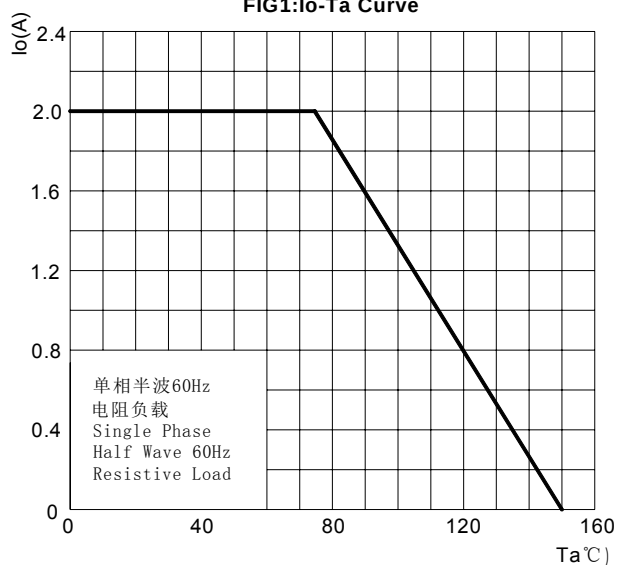


图2: 耐正向浪涌电流曲线  
FIG2: Surge Forward Current Capability

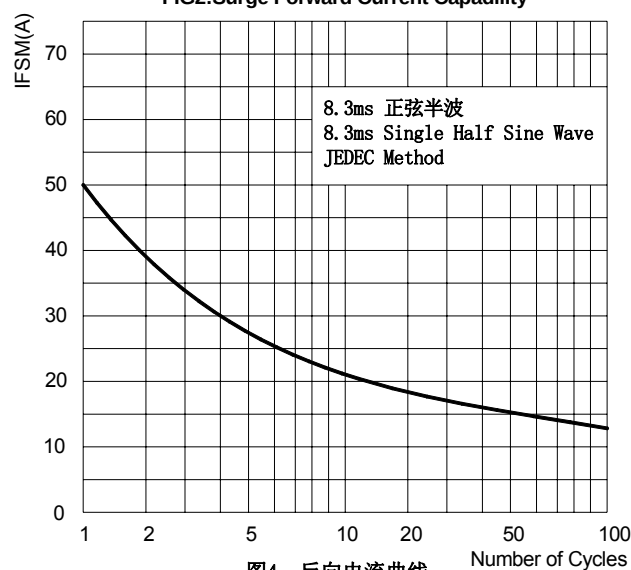


图3: 正向电压曲线  
FIG3: Forward Voltage

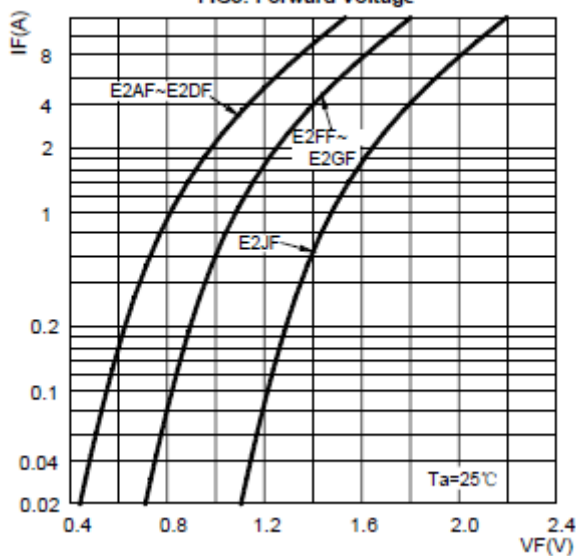


图4: 反向电流曲线  
FIG4: Typical Reverse Characteristics

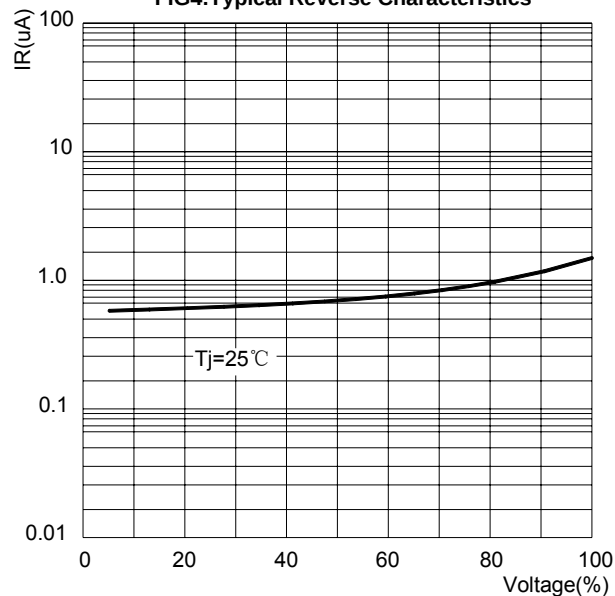


图5: 反向恢复时间试验电路及测试波形示意图

FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

