



## 超快恢复整流二极管 Ultra-Fast Recovery Rectifier Diodes

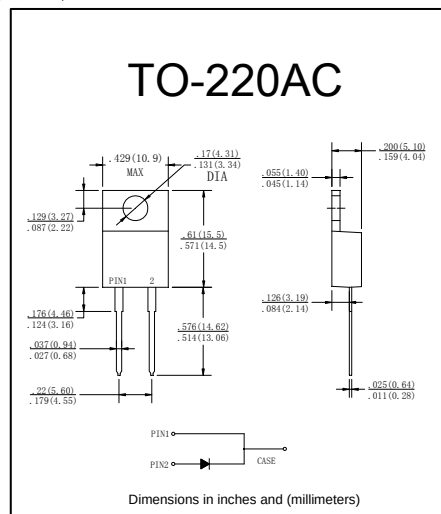
## ■特征 Features

- $I_o$  8.0A
- $V_{RRM}$  100V~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

- 快速整流用  
High speed switching

## ■外形尺寸和印记 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           | 测试条件<br>Conditions                                                                            | MUR        |     |     |     |     |
|-----------------------------------------------------|--------------|----------------------|-----------------------------------------------------------------------------------------------|------------|-----|-----|-----|-----|
|                                                     |              |                      |                                                                                               | 810        | 815 | 820 | 840 | 860 |
| 反向重复峰值电压<br>Repetitive Peak Reverse Voltage         | $V_{RRM}$    | V                    |                                                                                               | 100        | 150 | 200 | 400 | 600 |
| 平均整流输出电流<br>Average Rectified Output Current        | $I_o$        | A                    | 60Hz 正弦波, 电阻负载, $T_a=25^{\circ}\text{C}$<br>60Hz sine wave, R- load, $T_a=25^{\circ}\text{C}$ | 8          |     |     |     |     |
| 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, $T_a=25^{\circ}\text{C}$<br>60Hz sine wave, 1 cycle, $T_a=25^{\circ}\text{C}$  | 125        |     |     |     |     |
| 正向浪涌电流的平方对电流浪涌持续时间的积分值<br>Current Squared Time      | $I^2t$       | $\text{A}^2\text{s}$ | $1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^{\circ}\text{C}$                                   | 65         |     |     |     |     |
| 贮存温度<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                                             |                     | MUR  |     |     |      |     |
|---------------------------------|----------------------|------------|--------------------------------------------------------------------|---------------------|------|-----|-----|------|-----|
|                                 |                      |            |                                                                    |                     | 810  | 815 | 820 | 840  | 860 |
| 正向峰值电压<br>Peak Forward Voltage  | V <sub>FM</sub>      | V          | I <sub>FM</sub> =8.0A                                              |                     | 0.95 |     |     | 1.25 | 1.7 |
| 反向峰值电流<br>Peak Reverse Current  | I <sub>RRM1</sub>    | μ A        | V <sub>RM</sub> =V <sub>RRM</sub>                                  | T <sub>a</sub> =25℃ | 10   |     |     |      |     |
|                                 | T <sub>a</sub> =125℃ |            |                                                                    | 500                 |      |     |     |      |     |
| 反向恢复时间<br>Reverse Recovery Time | T <sub>rr</sub>      | ns         | I <sub>F</sub> =0.5A I <sub>RM</sub> =1A<br>I <sub>RR</sub> =0.25A |                     | 35   |     |     | 50   |     |
| 热阻<br>Thermal Resistance        | R θ J-C              | ℃/W        | 结和壳之间<br>Between junction and case                                 |                     | 2.0  |     |     |      |     |

## ■特性曲线（典型） Characteristics(Typical)

图1: 正向电流降额曲线

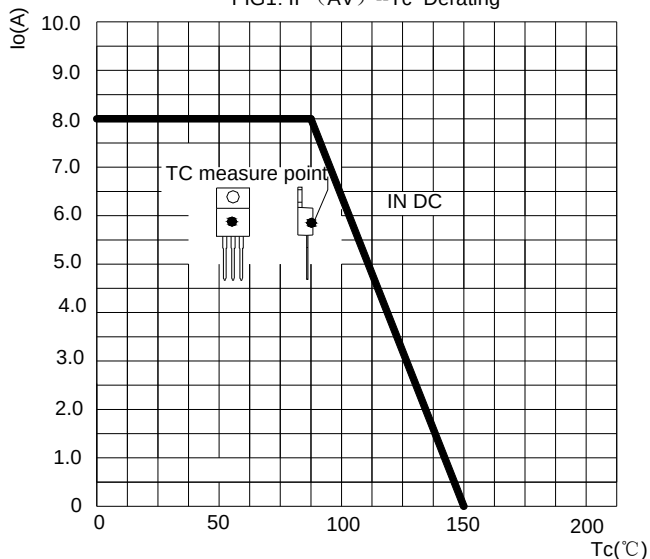
FIG1:  $I_F$  (AV) --  $T_c$  Derating

图2: 耐正向浪涌电流曲线

FIG2: Surge Forward Current Capability

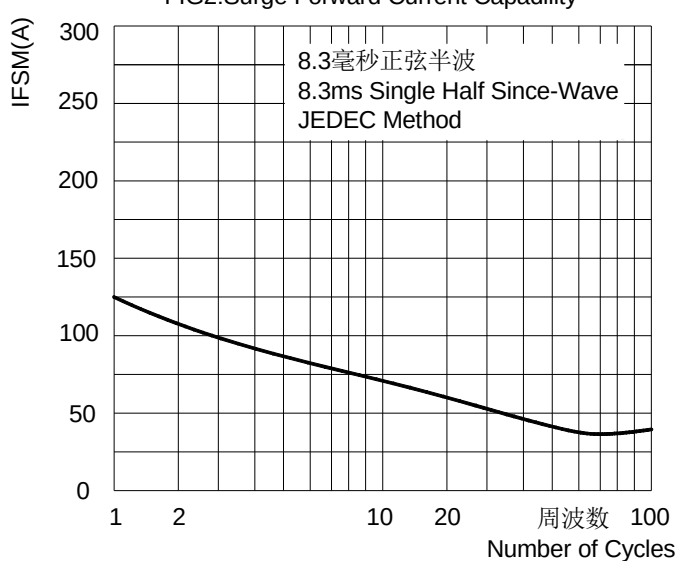


图3: 正向电压曲线

FIG3: Instantaneous Forward Voltage

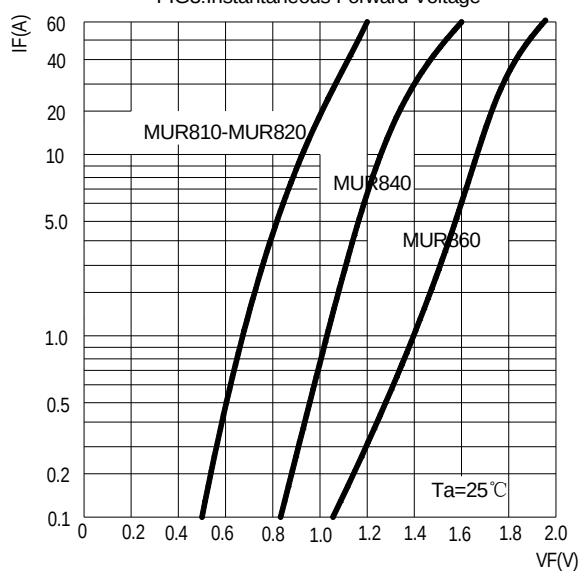
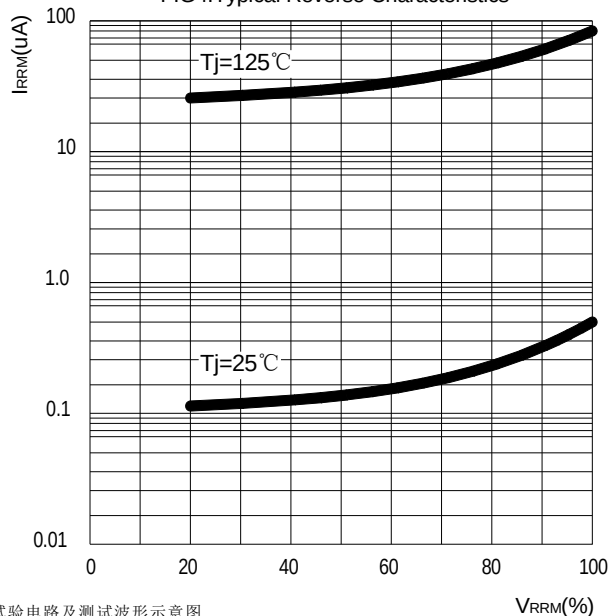


图4: 反向电流曲线

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