



# SR10150L

## 肖特基二极管 Schottky Rectifier

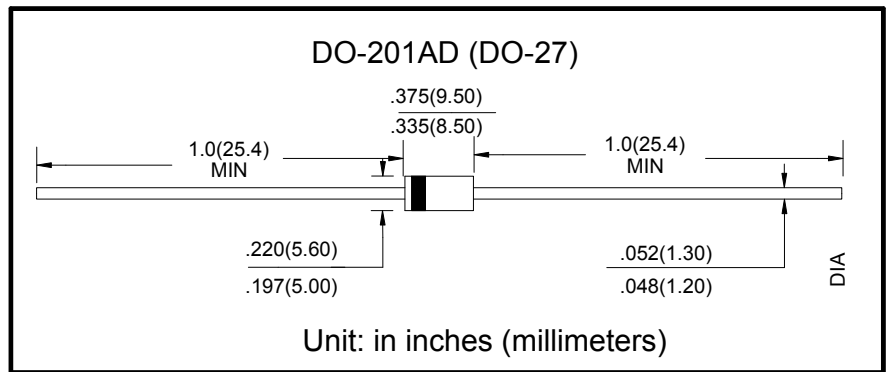
### ■特征 Features

- $I_o$  10.0A
- VRRM 150V
- 耐正向浪涌电流能力高
- High surge current capability
- 低正向压降
- Low forward voltage drop

### ■用途 Applications

- 整流用 Rectifier

### ■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       | 条件<br>Conditions  | SR10150L   |
|---|--------------|------------------|---|------------|
| 反向重复峰值电压<br>Repetitive Peak Reverse Voltage         | VRRM         | V                |   | 150        |
| 正向平均电流<br>Average Forward Current                   | $I_{F(AV)}$  | A                | (正弦半波 60HZ, 电阻负载, $T_a=75^\circ\text{C}$ ); (60HZ Half-sine wave, Resistance load, $T_a=75^\circ\text{C}$ ) | 10.0       |
| 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, $T_a=25^\circ\text{C}$ ) (60HZ Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$ )          | 150        |
| 结温<br>Junction Temperature                          | $T_j$        | $^\circ\text{C}$ |   | -55~+150   |
| 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                                     | 最大值<br>Max              |     |
|---------------------------------------|-------------------|--------------------|--|-------------------------|-----|
| 正向峰值电压<br>Peak Forward Voltage        | V <sub>FM</sub>   | V                  | $I_{FM}=10.0A$   | 0.8                     |     |
| 反向峰值电流<br>Peak Reverse Current        | I <sub>RRM1</sub> | mA                 | VRM=VRRM   | $T_a=25^\circ\text{C}$  | 0.2 |
|                                       | I <sub>RRM2</sub> |                    |  | $T_a=100^\circ\text{C}$ | 50  |
| 热阻(典型)<br>Thermal Resistance(Typical) | R <sub>θJ-A</sub> | $^\circ\text{C/W}$ | 结和环境之间<br>Between junction and ambient                     | 10                      |     |
|                                       | R <sub>θJ-L</sub> |                    | 结和引线之间<br>Between junction and lead                        | 8                       |     |
| 结电容<br>Typical junction capacitance   | C <sub>j</sub>    | pF                 | Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C. | 600                     |     |

## ■ 特性曲线 (典型) Characteristics(Typical)

FIG.1 正向电流降额曲线  
FORWARD CURRENT DERATING CURVE

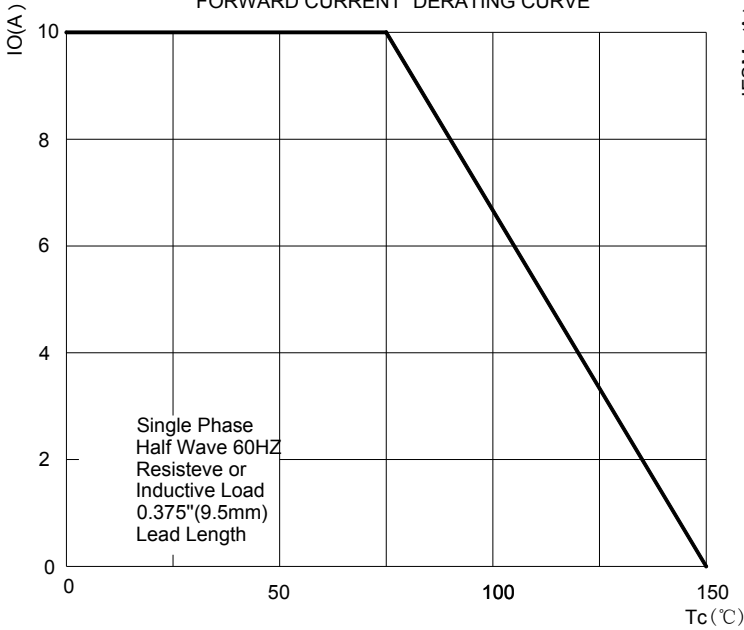


FIG.2 最大正向浪涌冲击耐受力  
MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT

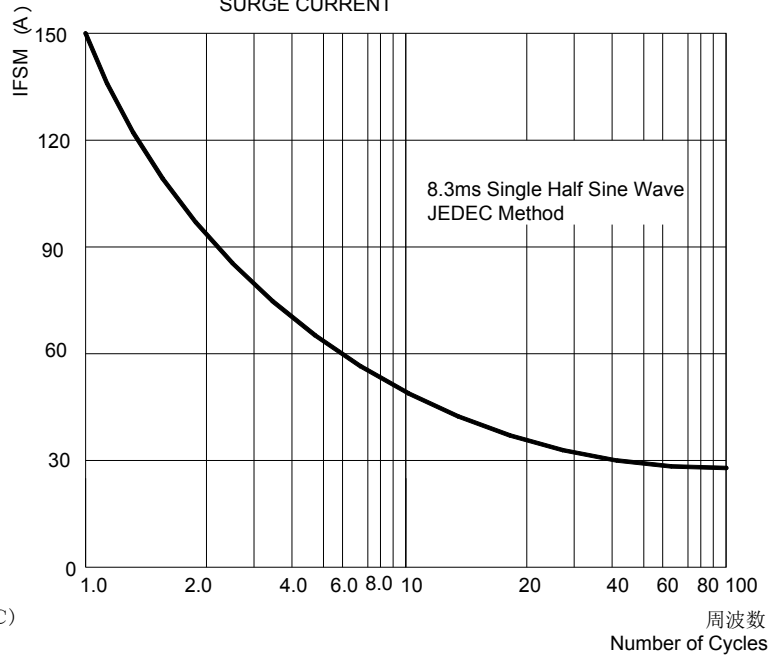


FIG.3 典型正向特性曲线  
TYPICAL FORWARD CHARACTERISTICS

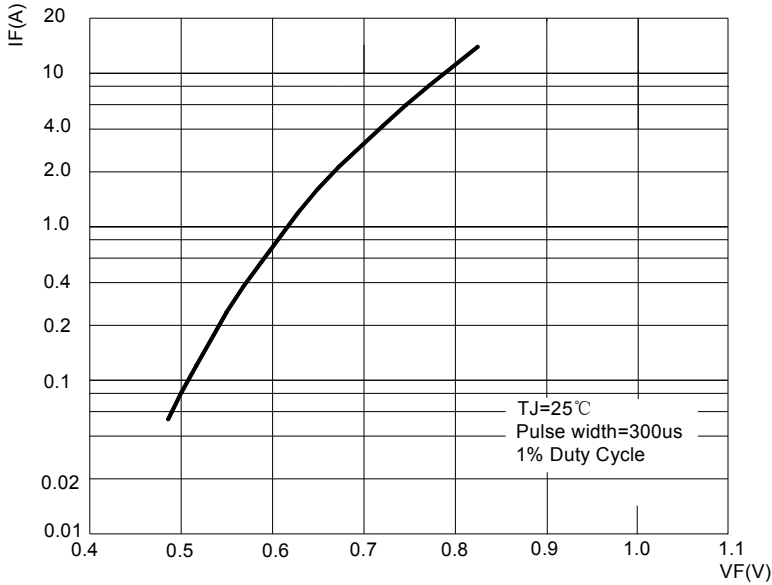


FIG.4 典型反向特性曲线  
TYPICAL REVERSE CHARACTERISTICS

