



SR520 THRU SR5100

肖特基二极管 Schottky Rectifier

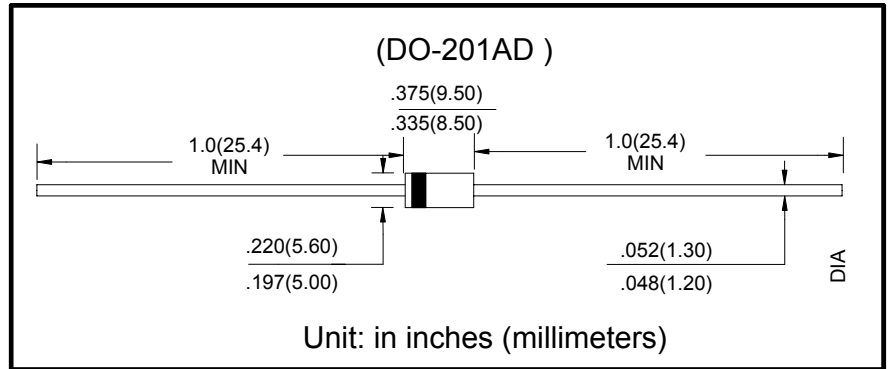
■特征 Features

- I_o 5.0A
- VRRM 20V-100V
- 耐正向浪涌电流能力高
- High surge current capability

■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 Item | 符号 Symbol | 单位 Unit | 条件 Conditions | SR5 | | | | | | |
|---|--------------|------------------|---|------------|----|----|----|----|----|-----|
| | | | | 20 | 30 | 40 | 50 | 60 | 80 | 100 |
| 反向重复峰值电压 Repetitive Peak Reverse Voltage | V_{RRM} | V | | 20 | 30 | 40 | 50 | 60 | 80 | 100 |
| 正向平均电流 Average Forward Current | $I_{F(AV)}$ | A | 正弦半波 60Hz, 电阻负载, $T_a=50^\circ\text{C}$ 60Hz Half-sine wave, Resistance load, $T_a=50^\circ\text{C}$ | 5.0 | | | | | | |
| 正向 (不重复) 浪涌电流 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, $T_a=25^\circ\text{C}$ | 120 | | | | | | |
| 结温 Junction Temperature | T_J | $^\circ\text{C}$ | | -55~+125 | | | | | | |
| 储存温度 Storage Temperature | T_{STG} | $^\circ\text{C}$ | | -55 ~ +150 | | | | | | |

■电特性 (Ta=25°C 除非另有规定)

Electrical Characteristics (Ta=25°C Unless otherwise specified)

| 参数名称 Item | 符号 Symbol | 单位 Unit | 测试条件 Test Condition | SR5 | | | | | | |
|---------------------------------------|------------------|--------------------|--|-------------------------|----|----|-----|----|------|-----|
| | | | | 20 | 30 | 40 | 50 | 60 | 80 | 100 |
| 正向峰值电压 Peak Forward Voltage | V_{FM} | V | $I_{FM}=5.0A$ | 0.55 | | | 0.7 | | 0.85 | |
| 反向峰值电流 Peak Reverse Current | I_{RRM1} | mA | $V_{RM}=V_{RRM}$ | $T_a=25^\circ\text{C}$ | | | | | | |
| | I_{RRM2} | | | $T_a=125^\circ\text{C}$ | | | | | | |
| 热阻(典型) Thermal Resistance(Typical) | $R_{\theta J-A}$ | $^\circ\text{C/W}$ | 结和环境之间 Between junction and ambient | 25 | | | | | | |
| | $R_{\theta J-L}$ | | 结和引线之间 Between junction and lead | 8 | | | | | | |

■ 特性曲线 (典型) Characteristics(Typical)

图1: 正向电流降额曲线

FIG.1: FORWARD CURRENT DERATING CURVE

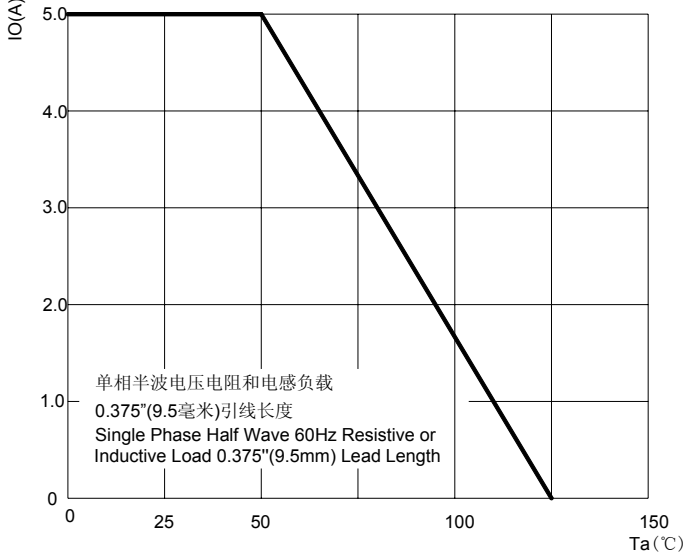


图2: 最大正向浪涌冲击耐受力

FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

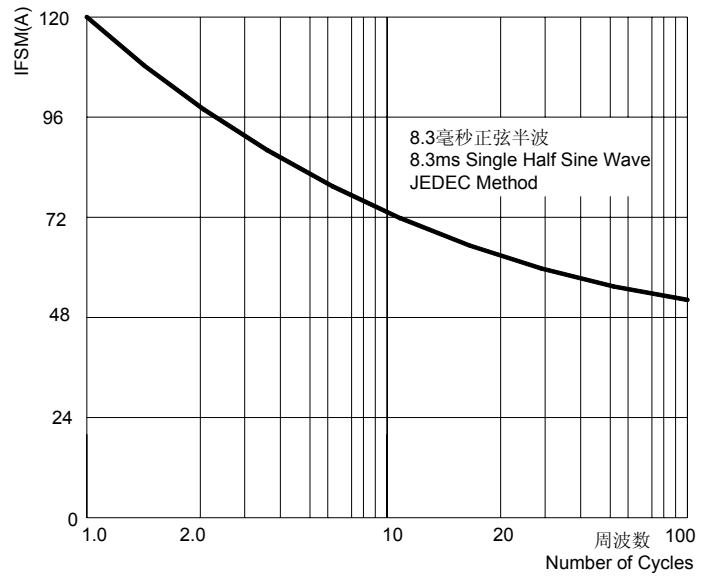


图3: 典型正向特性曲线

FIG.3: TYPICAL FORWARD CHARACTERISTICS

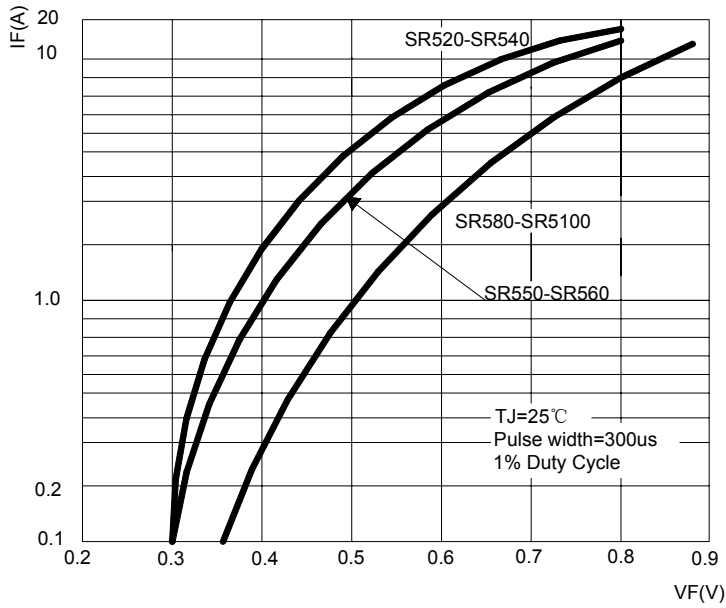


图4: 典型反向特性曲线

FIG.4: TYPICAL REVERSE CHARACTERISTICS

