

**特性/机械性能:**
**FEATURES/MECHANICAL DATA**

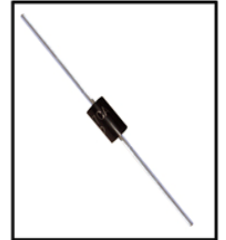
- ◆ 低正向压降 Low forward voltage drop
- ◆ 大电流导通能力 High current capability
- ◆ 高可靠性 High reliability
- ◆ 大电流浪涌能力 High surge current capability
- ◆ 耐焊接热: 250°C/10S, 引出端0.375" (9.5mm) 处。

High temperature soldering guaranteed: 250°C / 10S / 9.5mm lead length

- ◆ 封装: 模塑封装 Case: Molded plastic
- ◆ 塑封材料: 采用UL94V-0认可的阻燃环氧料 Epoxy: UL94V-0 rate flame retardant
- ◆ 引线: 电镀轴式引线可焊性符合MIL-STD-202E, 方法208

Lead: Axial lead solderable per MIL-STD-202, method 208 guaranteed

- ◆ 极性: 色环表示阴极 Polarity: Color band denotes cathode end
- ◆ 安装位置: 任意 Mounting position: Any



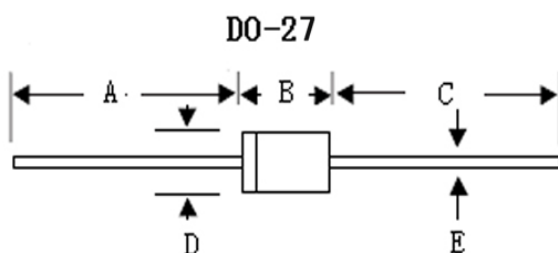
DO-27

**最大额定值及电气特性**
**MAXIMUM RATINGS AND CHARACTERISTICS**

测量环境温度为25°C, 除非另有规定. 单相半波, 50HZ, 阻性或感性负载, 对于容性负载, 电流降额20%.  
 Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 50HZ, resistive or inductive load. For capacitive load, derate current by 20%.

| 参数名称 Papt Number   | 符号Symbol | SR520    | SR530 | SR540 | SR550    | SR560 | SR580 | SR5100 | Unit |
|--|----------|----------|-------|-------|----------|-------|-------|--------|------|
| 最大重复峰值反向电压Maximum Recurrent Peak Reverse Voltage   | VRRM     | 20       | 30    | 40    | 50       | 60    | 80    | 100    | V    |
| 最大平均有效值电压Maximum RMS Voltage   | VRMS     | 14       | 21    | 28    | 35       | 42    | 56    | 70     | V    |
| 最大直流截止电压Maximum DC Blocking Voltage  | VDC      | 20       | 30    | 40    | 50       | 60    | 80    | 100    | V    |
| 最大平均正向整流电流Maximum Average Forward Rectified Current<br>0.375" (9.5mm) Lead Length at Ta=60/85°C  | IF (AV)  | 5.0      |       |       |          |       |       |        | A    |
| 峰值正向浪涌电流, 额定负载下, 单相正弦半波10毫秒(EDEC方法)<br>Peak Forward Surge Current 10ms Single Half Sine-wave<br>Superimposed On Rated Load (JEDEC method ) | IFSM     | 150      |       |       |          |       |       |        | A    |
| 最大瞬间正向电压Maximum Instantaneous Forward Voltage @50A   | VF       | 0.55     |       | 0.70  |          | 0.85  |       |        | V    |
| 最大反向直流电流Maximum DC Reverse Current<br>at Rated DC Blocking Voltage (VR=VDC) Ta = 25°C  | IR       | 0.5      |       |       |          |       |       |        | mA   |
| 使用温度范围 Operating Temperature Range   | TJ       | -65~+125 |       |       | -65~+150 |       |       |        | °C   |
| 储存温度范围 Storage Temperature Range   | TSTG     | -65~+150 |       |       |          |       |       |        |      |

注 释 Note: 1. 在1MHz下测量, 施加4.0V D.C的反向电压. The measurement under the 1 MHz, applying a reverse voltage of 4.0 V, D.C.  
 2. 热阻是指从结至周围环境的热阻, 在0.375" (9.5mm) 引线长度处. The thermal resistance refers to the thermal resistance from the junction to ambient, in 0.375"(9.5 mm) lead length.

**产品外形尺寸:**
**Product appearance size**


| DIM | INCHES |        | MILLIMETERS |     |
|-----|--------|--------|-------------|-----|
|     | MIN    | MAX    | MIN         | MAX |
| A   | 1.0    |        | 25.4        |     |
| B   | 0.335  | 0.375  | 8.5         | 9.5 |
| C   | 1.0    |        | 25.4        |     |
| D   | 0.197  | 0.220  | 5.0         | 5.6 |
| E   | 0.0480 | 0.0520 | 1.1         | 1.3 |

特性曲线图:

RATINGS AND CHARACTERISTIC CURVES



FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

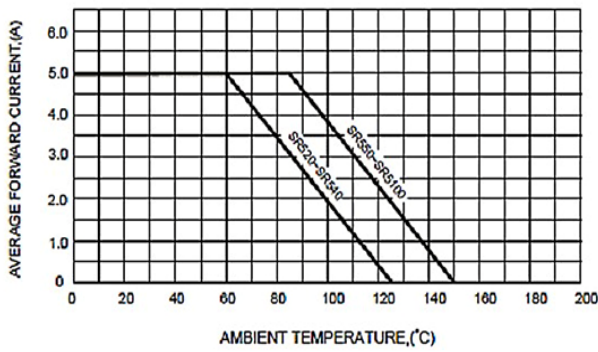


FIG.2-TYPICAL FORWARD CHARACTERISTICS

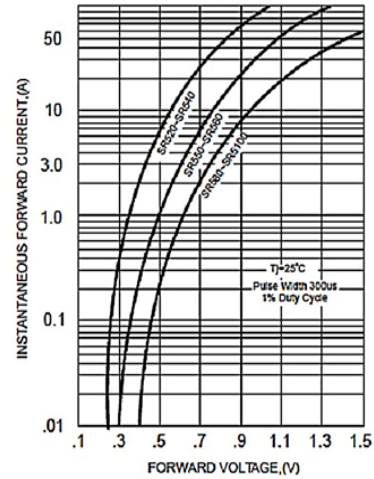


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

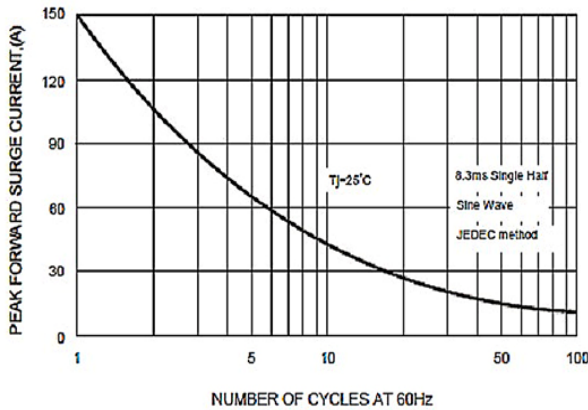


FIG.4-TYPICAL JUNCTION CAPACITANCE

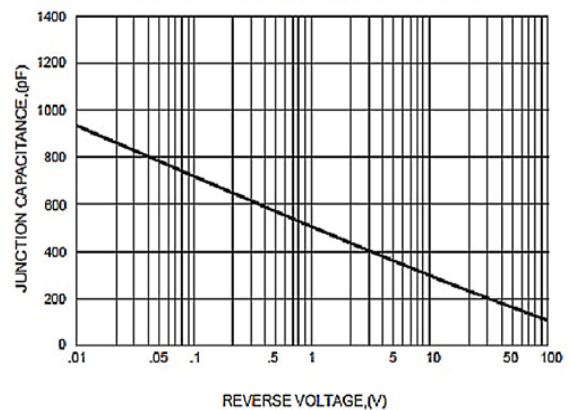


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

