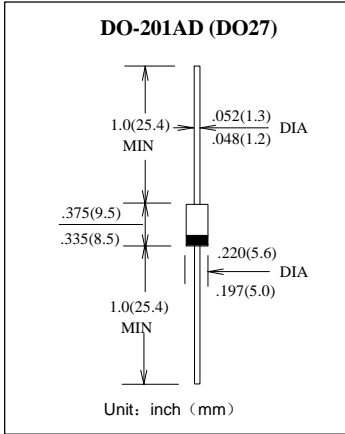


普通塑封整流二极管
反向电压 50 --- 1000 V
正向电流 3.0 A

General Purpose Plastic Rectifier
Reverse Voltage 50 to 1000 V
Forward Current 3.0 A



特征 Features

- 低的反向漏电流 Low reverse leakage
- 较强的正向浪涌承受能力 High forward surge capability
- 高温焊接保证 High temperature soldering guaranteed:
250°C/10 秒, 0.375" (9.5mm) 引线长度。
250°C/10 seconds, 0.375" (9.5mm) lead length,
- 引线可承受5 磅 (2.3kg) 拉力。 5 lbs. (2.3kg) tension

机械数据 Mechanical Data

- 端子: 镀锡轴向引线 Terminals: Plated axial leads
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 安装位置: 任意 Mounting Position: Any

极限值和温度特性 TA = 25°C 除非另有规定。

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

| | 符号 Symbols | 1N 5400 | 1N 5401 | 1N 5402 | 1N 5403 | 1N 5404 | 1N 5405 | 1N 5406 | 1N 5407 | 1N 5408 | 单位 Unit |
|--|---------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 最大可重复峰值反向电压 Maximum repetitive peak reverse voltage | V_{RRM} | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | V |
| 最大均方根电压 Maximum RMS voltage | V_{RMS} | 35 | 70 | 140 | 210 | 280 | 350 | 420 | 560 | 700 | V |
| 最大直流阻断电压 Maximum DC blocking voltage | V_{DC} | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | V |
| 最大正向平均整流电流 Maximum average forward rectified current | $I_{F(AV)}$ | 3.0 | | | | | | | | | A |
| 峰值正向浪涌电流 8.3ms 单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave | I_{FSM} | 200 | | | | | | | | | A |
| 最大反向峰值电流 @TA = 75°C Maximum peak reverse current full cycle | $I_{R(AV)}$ | 100 | | | | | | | | | μA |
| 典型热阻 Typical thermal resistance | $R_{θJA}$ | 15 | | | | | | | | | °C/W |
| 工作结温和存储温度 Operating junction and storage temperature range | TJ, TSTG | -50 --- +150 | | | | | | | | | °C |

电特性 TA = 25°C 除非另有规定。

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

| | 符号 Symbols | 1N 5400 | 1N 5401 | 1N 5402 | 1N 5403 | 1N 5404 | 1N 5405 | 1N 5406 | 1N 5407 | 1N 5408 | 单位 Unit |
|---|---------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 最大正向电压 $I_F = 3.0A$ Maximum forward voltage | V_F | 1.1 | | | | | | | | | V |
| 最大反向电流 TA= 25°C Maximum reverse current TA=100°C | I_R | 10 200 | | | | | | | | | μA |
| 典型结电容 $V_R = 4.0V, f = 1MHz$ Type junction capacitance | C_j | 45 | | | | | | | | | pF |

特性曲线 Characteristic Curves

