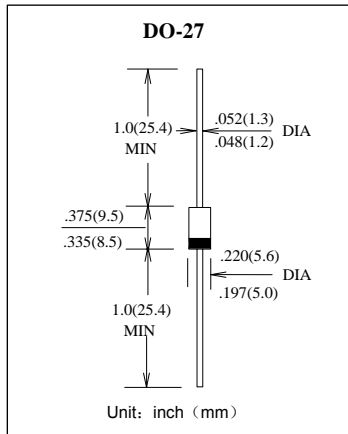


普通塑封整流二极管  
反向电压 50 --- 1000 V  
正向电流 5.0A

General Purpose Plastic Rectifier  
Reverse Voltage 50 to 1000 V  
Forward Current 5.0 A



### 特征 Features

- 反向漏电流低 Low reverse leakage
- 正向浪涌承受能力较强 High forward surge capability
- 高温焊接保证 High temperature soldering guaranteed:  
260°C/10 秒, 0.375" (9.5mm)引线长度。  
260°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
- 引线 and 管体皆符合RoHS标准。  
Lead and body according with RoHS standard

### 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<br>Symbols   | 5A05         | 5A1 | 5A2 | 5A4 | 5A6 | 5A8 | 5A10 | 单位<br>Unit |
|--|-----------------|--------------|-----|-----|-----|-----|-----|------|------------|
| 重复反向峰值电压<br>repetitive peak reverse voltage                                      | $V_{RRM}$       | 50           | 100 | 200 | 400 | 600 | 800 | 1000 | V          |
| 反向工作峰值电压<br>peak reverse voltage   | $V_{RWM}$       | 49           | 70  | 140 | 280 | 420 | 560 | 700  | V          |
| 不重复反向峰值电压<br>Non repetitive peak reverse voltage                                 | $V_{RSM}$       | 50           | 100 | 200 | 400 | 600 | 800 | 1000 | V          |
| 最大正向平均整流电流<br>Maximum average forward rectified current                          | $I_{F(AV)}$     | 5.0          |     |     |     |     |     |      | A          |
| 峰值正向浪涌电流 8.3ms 单一正弦半波<br>Peak forward surge current 8.3 ms single half sine-wave | $I_{FSM}$       | 300          |     |     |     |     |     |      | A          |
| 典型热阻 Typical thermal resistance  | $R_{\theta JA}$ | 15           |     |     |     |     |     |      | °C/W       |
| 工作结温和存储温度<br>Operating junction and storage temperature range                    | $T_J, T_{STG}$  | -55 --- +150 |     |     |     |     |     |      | °C         |

电特性 TA = 25°C 除非另有规定。

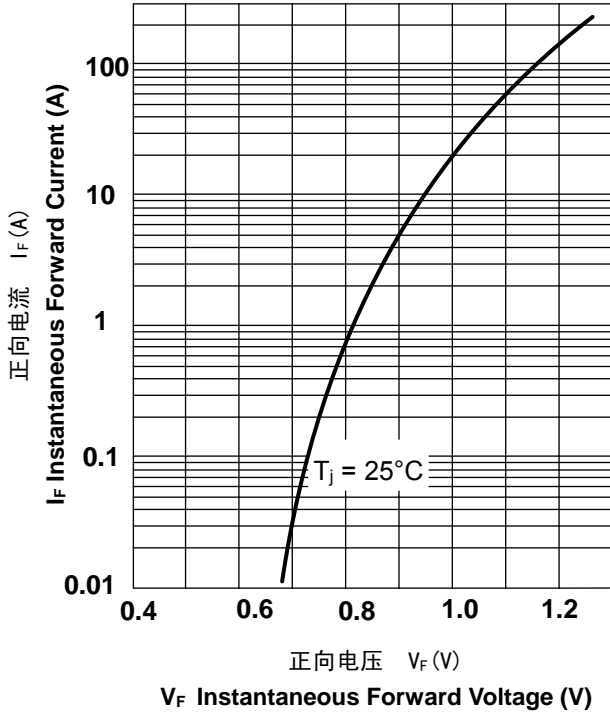
Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

|   | 符号<br>Symbols | 5A05      | 5A1 | 5A2 | 5A4 | 5A6 | 5A8 | 5A10 | 单位<br>Unit |
|---|---------------|-----------|-----|-----|-----|-----|-----|------|------------|
| 最大正向电压<br>Maximum forward voltage                         | $V_F$         | 1.1       |     |     |     |     |     |      | V          |
| 最大反向漏电流<br>Maximum reverse current                        | $I_R$         | 10<br>100 |     |     |     |     |     |      | μA         |
| 典型结电容 $V_R = 4.0V, f = 1MHz$<br>Type junction capacitance | $C_j$         | 150       |     |     |     |     |     |      | pF         |

特性曲线 Characteristic Curves

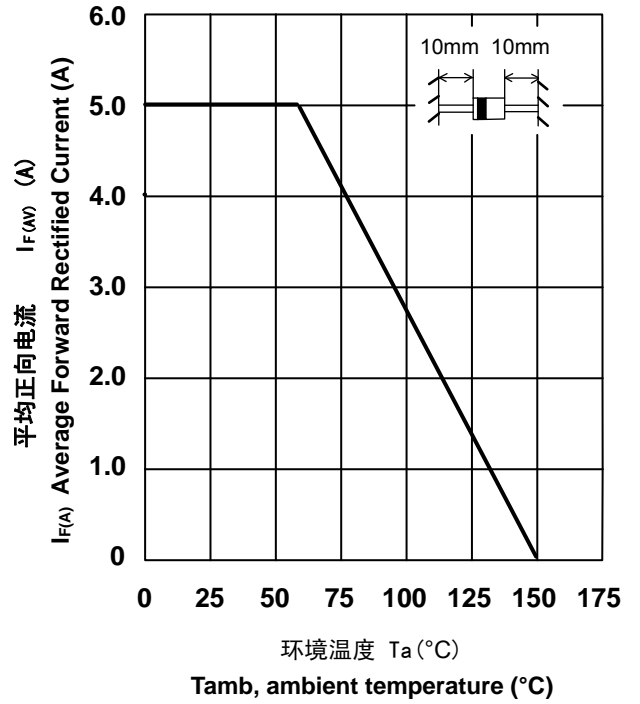
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



正向电流降额曲线

FORWARD CURRENT DERATING CURVE



浪涌特性曲线 (最大值)

MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT

