

## 普通塑封整流二极管

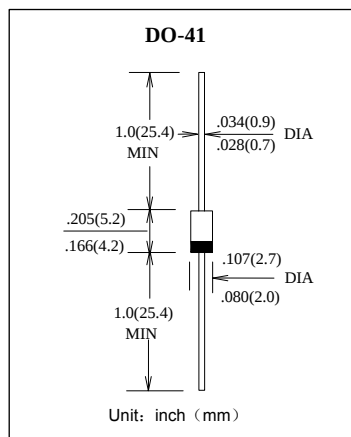
反向电压 50 ---1000 V

正向电流 1.0 A

## General Purpose Plastic Rectifier

Reverse Voltage 50 to 1000 V

Forward Current 1.0 A



## 特征 Features

- 玻璃钝化芯片 Glass Passivated chip
- 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 &amp; Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

|                                                                                 | 符号<br>Symbols   | 1N<br>4001G  | 1N<br>4002G | 1N<br>4003G | 1N<br>4004G | 1N<br>4005G | 1N<br>4006G | 1N<br>4007G | 单位<br>Unit |
|---------------------------------------------------------------------------------|-----------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| 最大可重复峰值反向电压<br>Maximum repetitive peak reverse voltage                          | $V_{RRM}$       | 50           | 100         | 200         | 400         | 600         | 800         | 1000        | V          |
| 最大均方根电压<br>Maximum RMS voltage                                                  | $V_{RMS}$       | 35           | 70          | 140         | 280         | 420         | 560         | 700         | V          |
| 最大直流阻断电压<br>Maximum DC blocking voltage                                         | $V_{DC}$        | 50           | 100         | 200         | 400         | 600         | 800         | 1000        | V          |
| 最大正向平均整流电流<br>Maximum average forward rectified current                         | $I_{F(AV)}$     | 1.0          |             |             |             |             |             |             | 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 | $I_{FSM}$       | 30           |             |             |             |             |             |             | A          |
| 典型热阻 Typical thermal resistance                                                 | $R_{\theta JA}$ | 65           |             |             |             |             |             |             | °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。

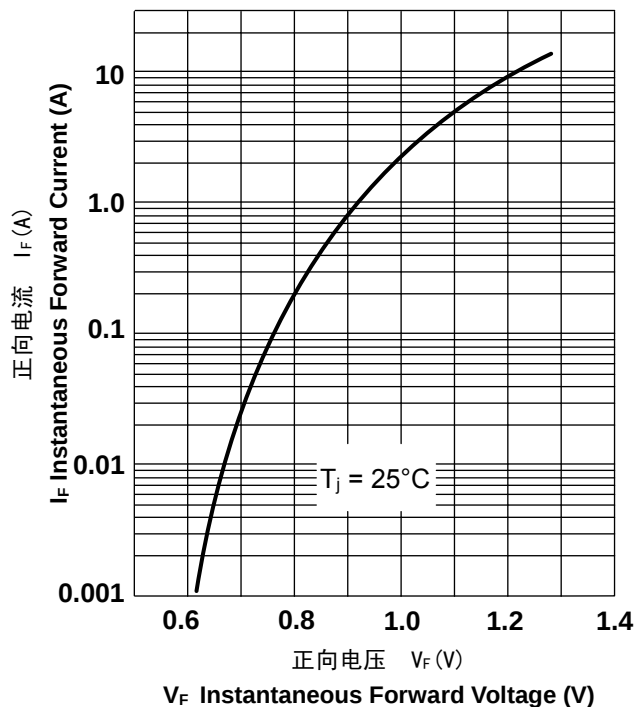
## Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

|                                                                          | 符号<br>Symbols | 1N<br>4001G | 1N<br>4002G | 1N<br>4003G | 1N<br>4004G | 1N<br>4005G | 1N<br>4006G | 1N<br>4007G | 单位<br>Unit |
|--------------------------------------------------------------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| 最大正向电压 $I_F = 1.0A$<br>Maximum forward voltage                           | $V_F$         | 1.1         |             |             |             |             |             |             | V          |
| 最大反向电流 $T_A = 25^\circ C$<br>Maximum reverse current $T_A = 125^\circ C$ | $I_R$         | 5.0<br>50   |             |             |             |             |             |             | $\mu A$    |
| 典型结电容 $V_R = 4.0V, f = 1MHz$<br>Type junction capacitance                | $C_j$         | 15          |             |             |             |             |             |             | pF         |

## 特性曲线 Characteristic Curves

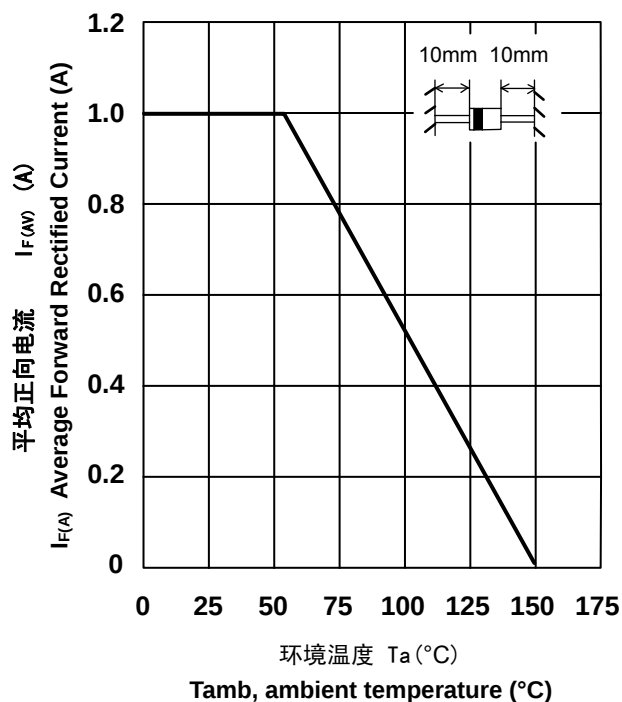
正向特性曲线（典型值）

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