

## 普通塑封整流二极管

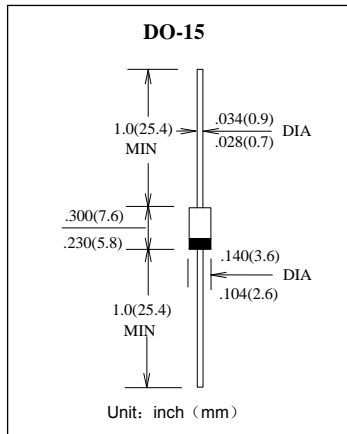
反向电压 50 --- 1000 V

正向电流 1.5 A

## General Purpose Plastic Rectifier

Reverse Voltage 50 to 1000 V

Forward Current 1.5A



## 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 &amp; Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

|                                                                                  | 符号<br>Symbols   | GP<br>15A    | GP<br>15B | GP<br>15D | GP<br>15G | GP<br>15J | GP<br>15K | GP<br>15M | 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                          | $I_{F(AV)}$     | 1.5          |           |           |           |           |           |           | 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 | $I_{FSM}$       | 50           |           |           |           |           |           |           | A          |
| 典型热阻 Typical thermal resistance                                                  | $R_{\theta JA}$ | 45           |           |           |           |           |           |           | °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。

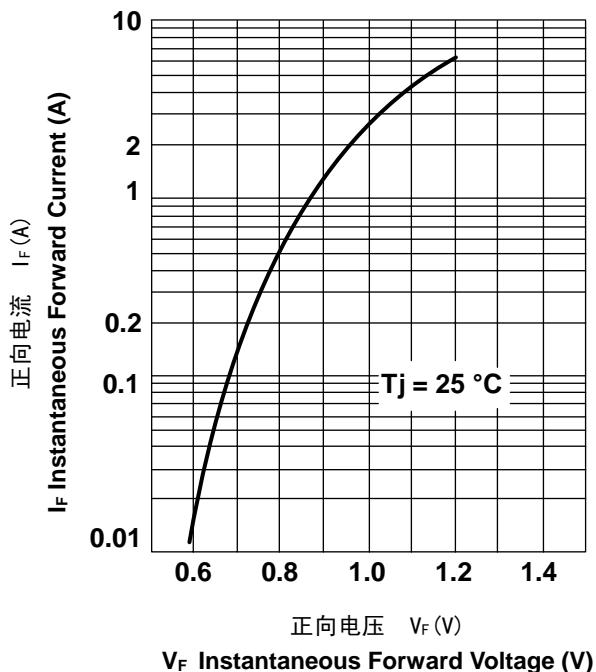
Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

|                                                                        | 符号<br>Symbols | GP<br>15A  | GP<br>15B | GP<br>15D | GP<br>15G | GP<br>15J | GP<br>15K | GP<br>15M | 单位<br>Unit |
|------------------------------------------------------------------------|---------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| 最大正向电压 $I_F = 1.5A$<br>Maximum forward voltage                         | $V_F$         | 1.1        |           |           |           |           |           |           | V          |
| 最大反向电流 $TA = 25^\circ C$<br>Maximum reverse current $TA = 100^\circ C$ | $I_R$         | 5.0<br>100 |           |           |           |           |           |           | $\mu A$    |
| 典型结电容 $V_R = 4.0V, f = 1MHz$<br>Type junction capacitance              | $C_j$         | 20         |           |           |           |           |           |           | pF         |

特性曲线 Characteristic Curves

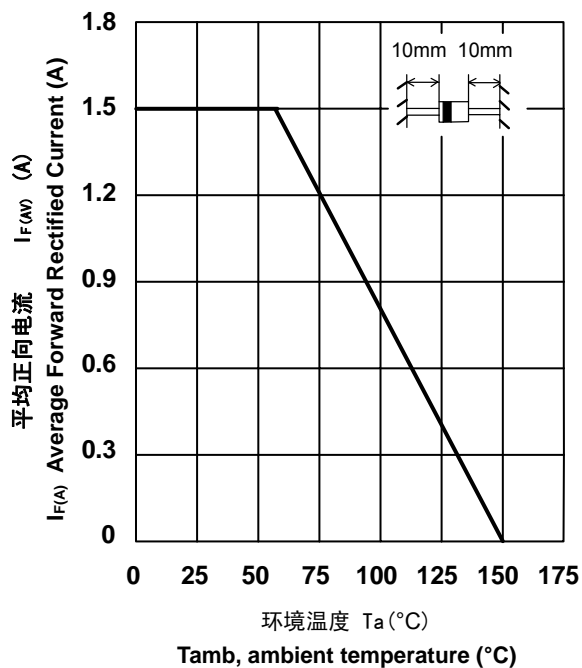
正向特性曲线 (典型值)

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

