

## 塑封快恢复整流二极管

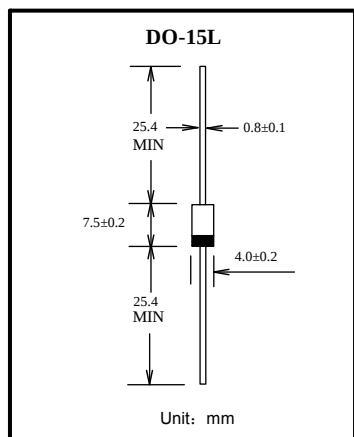
反向电压 50 ---1000 V

正向电流 2.5 A

## Plastic Fast Recover Rectifiers

Reverse Voltage 50 to 1000V

Forward Current 2.5A



## 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   | RGP<br>25A   | RGP<br>25B | RGP<br>25D | RGP<br>25G | RGP<br>25J | RGP<br>25K | RGP<br>25M | RGP<br>25MT | 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       | 1000        | V          |
| 最大均方根电压<br>Maximum RMS voltage                                                  | $V_{RMS}$       | 35           | 70         | 140        | 280        | 420        | 560        | 700        | 700         | V          |
| 最大直流阻断电压<br>Maximum DC blocking voltage                                         | $V_{DC}$        | 50           | 100        | 200        | 400        | 600        | 800        | 1000       | 1000        | V          |
| 最大正向平均整流电流<br>Maximum average forward rectified current                         | $I_{F(AV)}$     | 2.5          |            |            |            |            |            |            |             | 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 | $I_{FSM}$       | 125          |            |            |            |            |            |            |             | 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         |

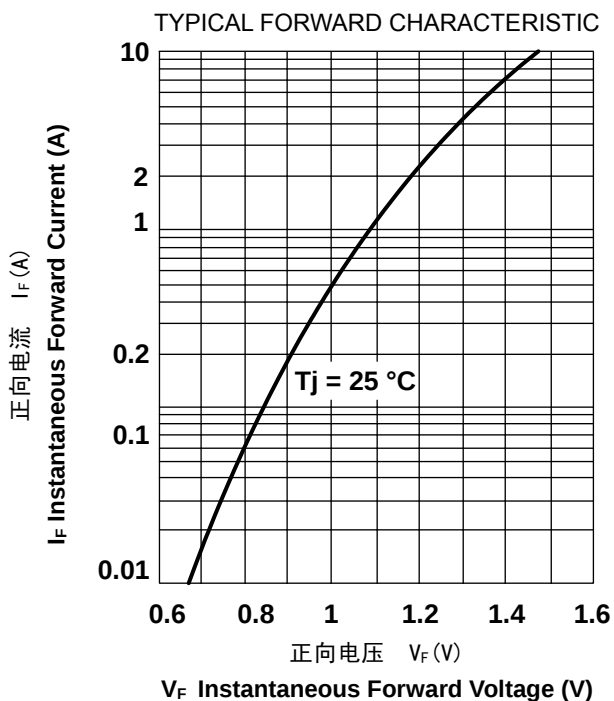
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## Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

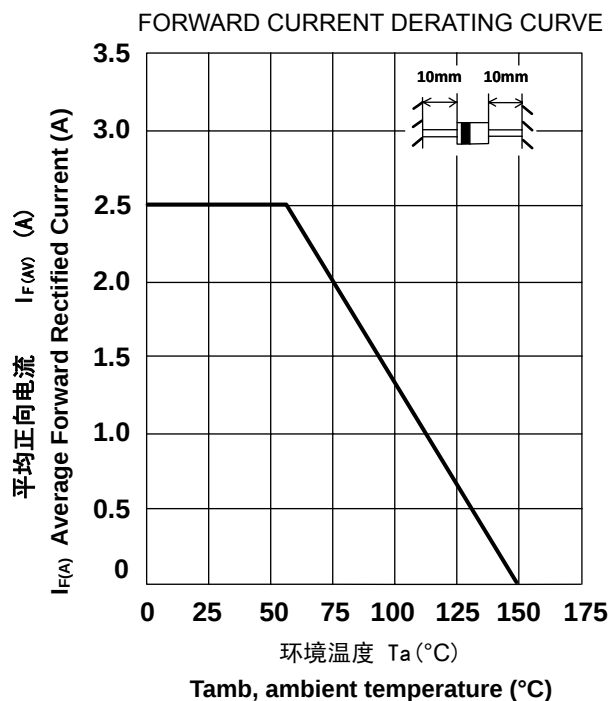
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|--------------------------------------------------------------------------------------|---------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|
| 最大正向电压<br>Maximum forward voltage<br>$I_F = 2.5A$                                    | $V_F$         | 1.3        |            |            |            |            |            |            |             | V          |
| 最大反向电流<br>Maximum reverse current<br>$T_A = 25^\circ C$<br>$T_A = 100^\circ C$       | $I_R$         | 5.0<br>200 |            |            |            |            |            |            |             | μA         |
| 最大反向恢复时间<br>MAX. Reverse Recovery Time<br>$I_F = 0.5A$ $I_R = 1.0A$ $I_{RR} = 0.25A$ | $t_{rr}$      | 150        |            |            |            | 250        | 300        | 250        |             | nS         |
| 典型结电容<br>Type junction capacitance<br>$V_R = 4.0V, f = 1MHz$                         | $C_j$         | 50         |            |            |            |            |            |            |             | pF         |

## 特性曲线 Characteristic Curves

正向特性曲线（典型值）



正向电流降额曲线



浪涌特性曲线（最大值）

