

塑封普通整流二极管

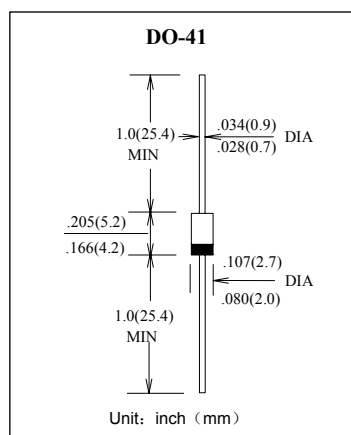
反向电压 100 ---1000 V

正向电流 1.0 A

General Purpose Plastic Rectifier

Reverse Voltage 100 to 1000 V

Forward Current 1.0 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 | ERA 15-01 | ERA 15-02 | ERA 15-04 | ERA 15-06 | ERA 15-08 | ERA 15-10 | 单位 Unit |
|--|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
| 最大可重复峰值反向电压 Maximum repetitive peak reverse voltage | V_{RRM} | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| 最大均方根电压 Maximum RMS voltage | V_{RMS} | 70 | 140 | 280 | 420 | 560 | 700 | V |
| 最大直流阻断电压 Maximum DC blocking voltage | V_{DC} | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| 最大正向平均整流电流 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 Peak forward surge current 8.3 ms single half sine-wave | I_{FSM} | 40 | | | | | | A |
| 最大反向峰值电流 @TA = 75°C Maximum peak reverse current full cycle | $I_{R(AV)}$ | 30 | | | | | | μA |
| 典型热阻 Typical thermal resistance | $R_{\theta JA}$ | 65 | | | | | | °C/W |
| 工作结温和存储温度 Operating junction and storage temperature range | T_j, T_{STG} | -50 --- +150 | | | | | | °C |

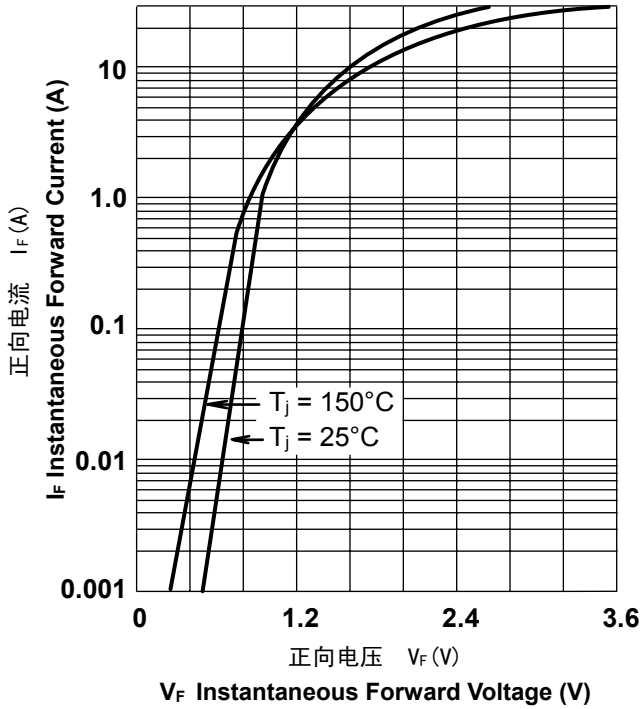
电特性 TA = 25°C 除非另有规定。

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

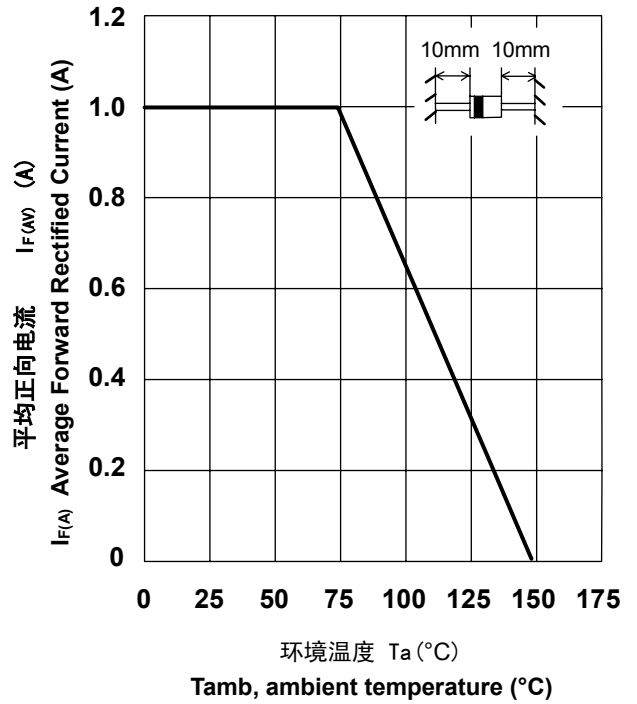
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|---|---------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
| 最大正向电压 $I_F = 1.0A$ Maximum forward voltage | V_F | 1.1 | | | | | | V |
| 最大反向电流 TA= 25°C TA=100°C Maximum reverse current | I_R | 5.0 200 | | | | | | μA |
| 典型结电容 $V_R = 4.0V, f = 1MHz$ Type junction capacitance | C_j | 12 | | | | | | 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

