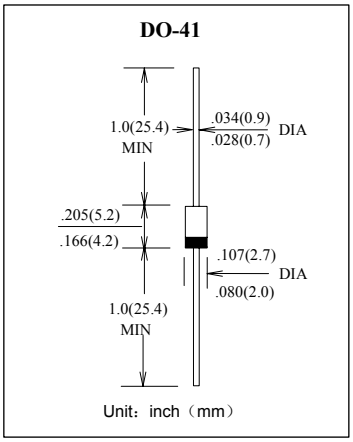
# ERA15-01.....ERA15-10

## 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℃/10 秒, 0.375" (9.5mm)引线长度。
  250℃/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℃ 除非另有规定。

### Maximum Ratings & Thermal Characteristics Ratings at 25℃ 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℃ Maximum peak reverse current full cycle | $I_{R(AV)}$ | 30 | | | | | | μA |
| 典型热阻 Typical thermal resistance | $R_{\theta JA}$ | 65 | | | | | | ℃/W |
| 工作结温和存储温度 Operating junction and storage temperature range | Tj, TSTG | -50 --- +150 | | | | | | ℃ |

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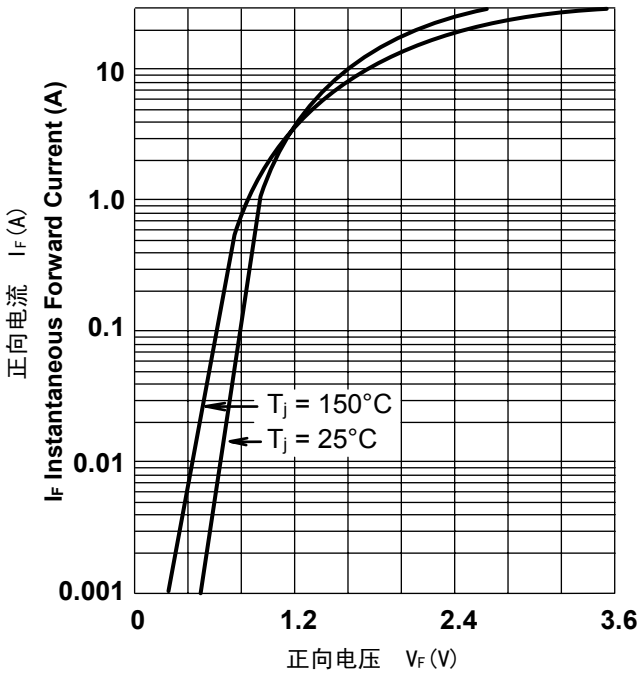
### Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

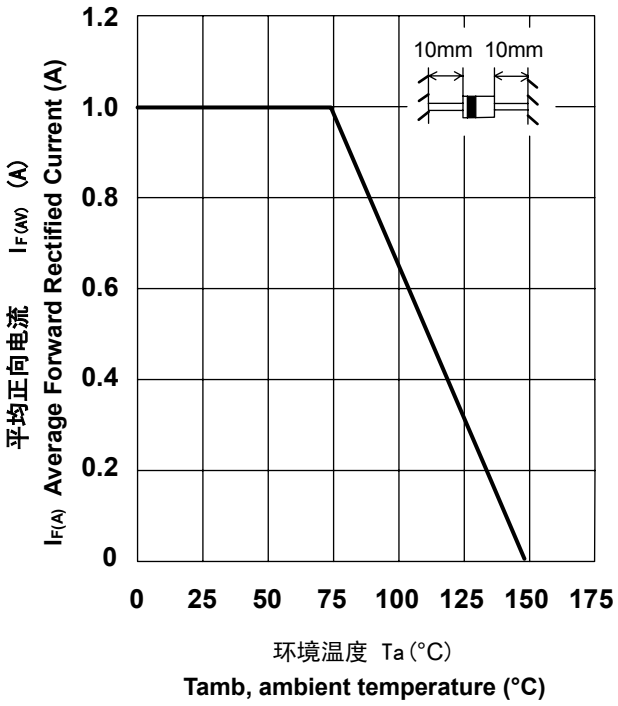
| | | 符号 Symbols | ERA 15-01 | ERA 15-02 | ERA 15-04 | ERA 15-06 | ERA 15-08 | ERA 15-10 | 单位 Unit |
|---|---|---|---|---|---|---|---|---|---|
| 最大正向电压 Maximum forward voltage | $I_F$ = 1.0A | $V_F$ | 1.1 | | | | | | V |
| 最大反向电流 Maximum reverse current | TA= 25℃<br>TA=100℃ | $I_R$ | 5.0<br>200 | | | | | | μA |
| 典型结电容 $V_R$ = 4.0V, f = 1MHz Type junction capacitance | | Cj | 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**