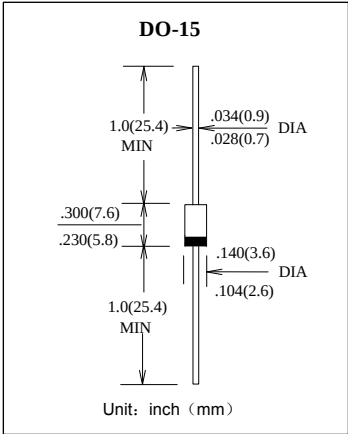


塑封高效率整流二极管  
反向电压 50 --- 1000 V  
正向电流 1.5 A

Plastic High-Efficiency Rectifiers  
Reverse Voltage 50 to 1000V  
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℃/10 秒, 0.375" (9.5mm)引线长度。  
260℃/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℃ 除非另有规定。

Maximum Ratings & Thermal Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

|                                                                                 | 符号<br>Symbols   | HER<br>151   | HER<br>152 | HER<br>153 | HER<br>154 | HER<br>155 | HER<br>156 | HER<br>157 | HER<br>158 | 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        | 300        | 400        | 600        | 800        | 1000       | V          |
| 最大均方根电压<br>Maximum RMS voltage                                                  | $V_{RMS}$       | 35           | 70         | 140        | 210        | 280        | 420        | 560        | 700        | V          |
| 最大直流阻断电压<br>Maximum DC blocking voltage                                         | $V_{DC}$        | 50           | 100        | 200        | 300        | 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           |            |            |            |            |            |            |            | ℃/W        |
| 工作结温和存储温度<br>Operating junction and storage temperature range                   | $T_J, T_{STG}$  | -55 --- +150 |            |            |            |            |            |            |            | ℃          |

电特性 TA = 25℃ 除非另有规定。

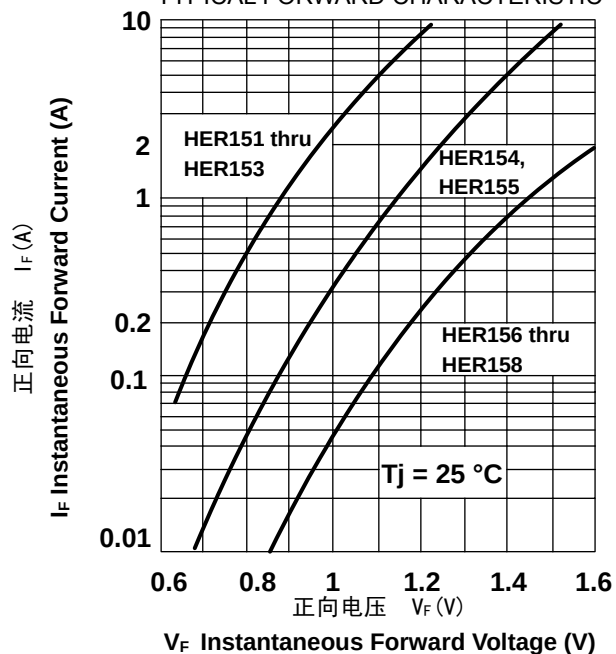
Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

|                                                                                                            | 符号<br>Symbols  | HER<br>151 | HER<br>152 | HER<br>153 | HER<br>154 | HER<br>155 | HER<br>156 | HER<br>157 | HER<br>158 | 单位<br>Unit |
|------------------------------------------------------------------------------------------------------------|----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 最大正向电压<br>Maximum forward voltage<br>I <sub>F</sub> = 1.5A                                                 | V <sub>F</sub> | 1.0        |            |            | 1.3        |            | 1.7        |            |            | V          |
| 最大反向电流<br>Maximum reverse current<br>T <sub>A</sub> = 25℃<br>T <sub>A</sub> =100℃                          | I <sub>R</sub> | 5.0<br>200 |            |            |            |            |            |            |            | μA         |
| 最大反向恢复时间<br>MAX. Reverse Recovery Time<br>I <sub>F</sub> =0.5A I <sub>R</sub> =1.0A I <sub>RR</sub> =0.25A | trr            | 50         |            |            |            |            | 75         |            |            | nS         |
| 典型结电容<br>Type junction capacitance<br>V <sub>R</sub> = 4.0V, f = 1MHz                                      | C <sub>j</sub> | 35         |            |            |            |            | 20         |            |            | pF         |

## 特性曲线 Characteristic Curves

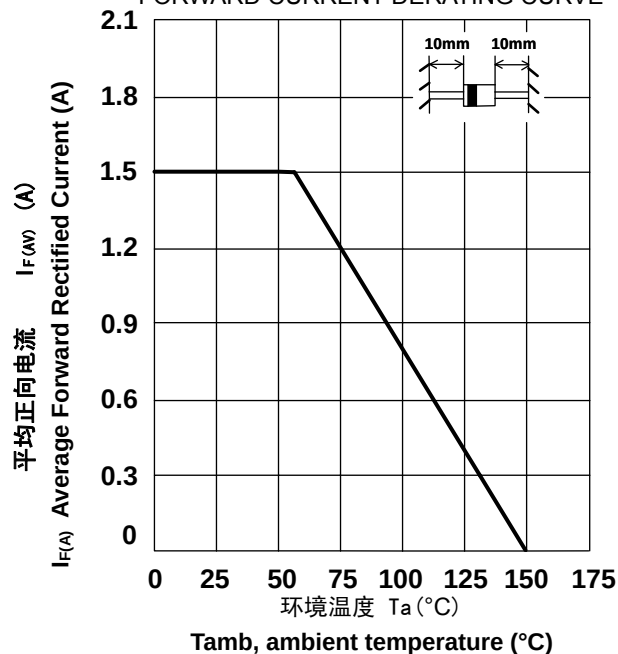
正向特性曲线（典型值）

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