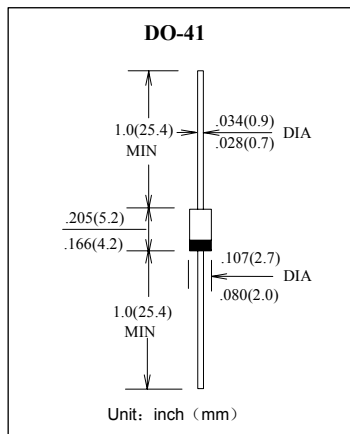


塑封超快速整流二极管  
反向电压 50 --- 600 V  
正向电流 1.0 A

Plastic Ultra-Fast Recover Rectifier  
Reverse Voltage 50 to 600V  
Forward Current 1.0A



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<br>Symbols                     | ER<br>100    | ER<br>101 | ER<br>101A | ER<br>102 | ER<br>103 | ER<br>104 | ER<br>106 | 单位<br>Unit |
|--|-----------------------------------|--------------|-----------|------------|-----------|-----------|-----------|-----------|------------|
| 最大可重复峰值反向电压<br>Maximum repetitive peak reverse voltage                           | V <sub>RRM</sub>                  | 50           | 100       | 150        | 200       | 300       | 400       | 600       | V          |
| 最大均方根电压<br>Maximum RMS voltage   | V <sub>RMS</sub>                  | 35           | 70        | 105        | 140       | 210       | 280       | 420       | V          |
| 最大直流阻断电压<br>Maximum DC blocking voltage  | V <sub>DC</sub>                   | 50           | 100       | 150        | 200       | 300       | 400       | 600       | V          |
| 最大正向平均整流电流<br>Maximum average forward rectified current                          | I <sub>F(AV)</sub>                | 1.0          |           |            |           |           |           |           | 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 <sub>FSM</sub>                  | 30           |           |            |           |           |           |           | A          |
| 最大反向峰值电流 @TA=75°C<br>Maximum peak reverse current full cycle                     | I <sub>R(AV)</sub>                | 30           |           |            |           |           |           |           | μA         |
| 典型热阻 Typical thermal resistance  | R <sub>θJA</sub>                  | 65           |           |            |           |           |           |           | °C/W       |
| 工作结温和存储温度<br>Operating junction and storage temperature range                    | T <sub>J</sub> , T <sub>STG</sub> | -50 --- +150 |           |            |           |           |           |           | °C         |

电特性 TA = 25°C 除非另有规定。

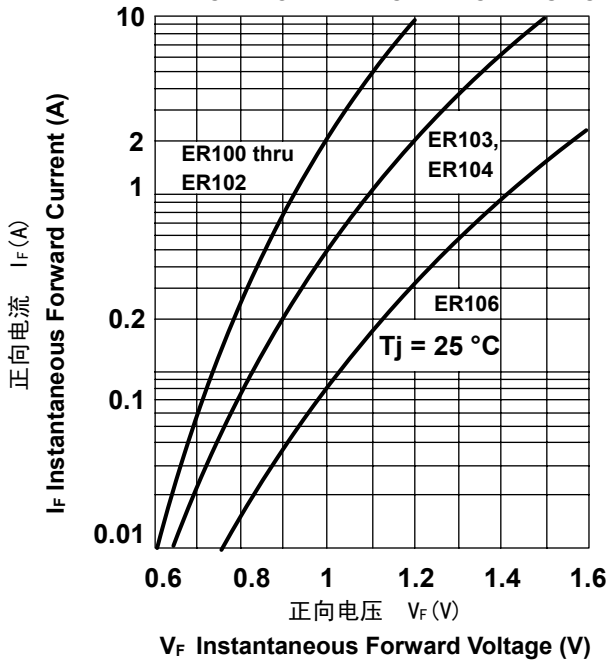
Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

|   | 符号<br>Symbols  | ER<br>100 | ER<br>101 | ER<br>101A | ER<br>102 | ER<br>103 | ER<br>104 | ER<br>106 | 单位<br>Unit |    |
|---|----------------|-----------|-----------|------------|-----------|-----------|-----------|-----------|------------|----|
| 最大正向电压 I <sub>F</sub> = 1.0A<br>Maximum forward voltage   | V <sub>F</sub> | 0.95      |           |            | 1.25      |           | 1.7       |           | V          |    |
| 最大反向电流 TA=25°C<br>Maximum reverse current TA=100°C  | I <sub>R</sub> | 5.0       |           |            |           | 100       |           |           |            | μA |
| 最大反向恢复时间 I <sub>F</sub> =0.5A I <sub>R</sub> =1.0A I <sub>RR</sub> =0.25A<br>MAX. Reverse Recovery Time | trr            | 35        |           |            |           |           |           |           |            | nS |
| 典型结电容 V <sub>R</sub> = 4.0V, f = 1MHz<br>Type junction capacitance                                      | C <sub>j</sub> | 17        |           |            |           |           |           |           |            | pF |

特性曲线 Characteristic Curves

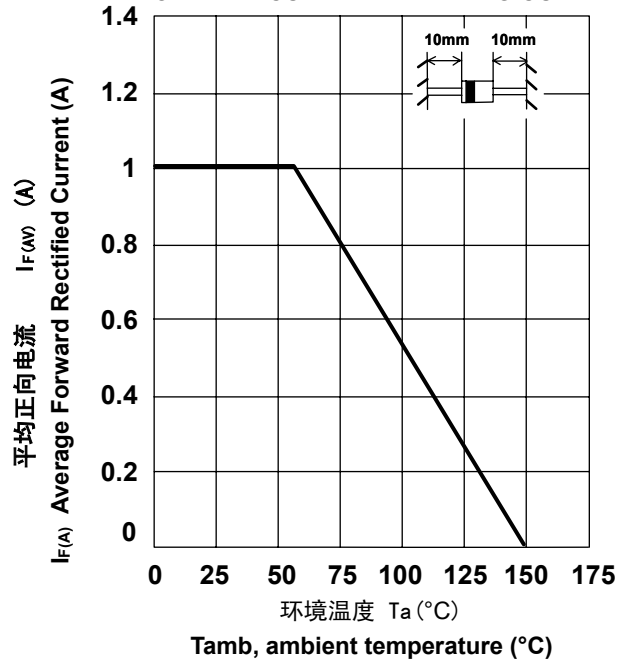
正向特性曲线 (典型值)

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

