

塑封超快速整流二极管

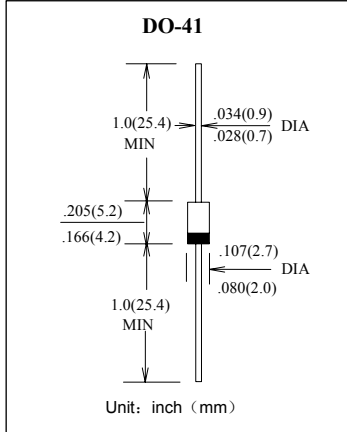
反向电压 1000V

正向电流 0.4--- 0.7A

Plastic Ultra-Fast Recover Rectifier

Reverse Voltage 1000V

Forward Current 0.4 to 0.7A



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                     | RG 1C        | RU 1P | 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>                  | 1000         |       | V          |
| 最大均方根电压<br>Maximum RMS voltage   | V <sub>RMS</sub>                  | 700          |       | V          |
| 最大直流阻断电压<br>Maximum DC blocking voltage  | V <sub>DC</sub>                   | 1000         |       | V          |
| 最大正向平均整流电流<br>Maximum average forward rectified current                          | I <sub>F(AV)</sub>                | 0.7          | 0.4   | 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>                  | 10           |       | 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。

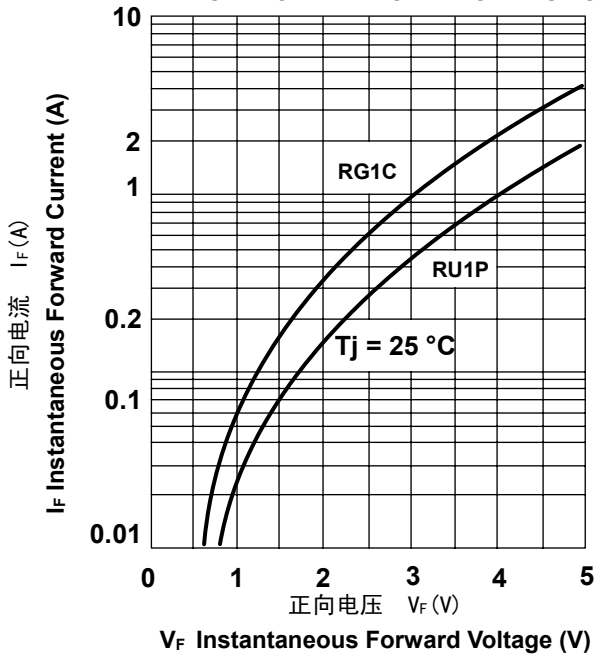
Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

|  | 符号<br>Symbols   | RG 1C      | RU 1P | 单位<br>Unit |
|--|---|------------|-------|------------|
| 最大正向电压<br>Maximum forward voltage      | I <sub>F</sub> = 1.0A<br>V <sub>F</sub>                                 | 3.3        | 4.0   | V          |
| 最大反向电流<br>Maximum reverse current      | TA= 25°C<br>TA=100°C<br>I <sub>R</sub>                                  | 5.0<br>150 |       | µA         |
| 最大反向恢复时间<br>MAX. Reverse Recovery Time | I <sub>F</sub> =0.5A I <sub>R</sub> =1.0A I <sub>RR</sub> =0.25A<br>trr | 75         |       | nS         |
| 典型结电容<br>Type junction capacitance     | V <sub>R</sub> = 4.0V, f = 1MHz<br>C <sub>j</sub>                       | 12         |       | pF         |

特性曲线 Characteristic Curves

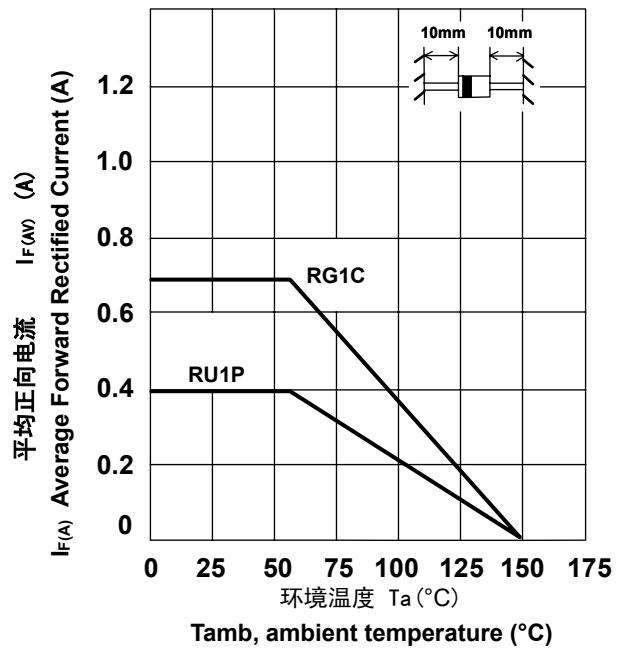
正向特性曲线 (典型值)

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

