

塑封超快速整流二极管

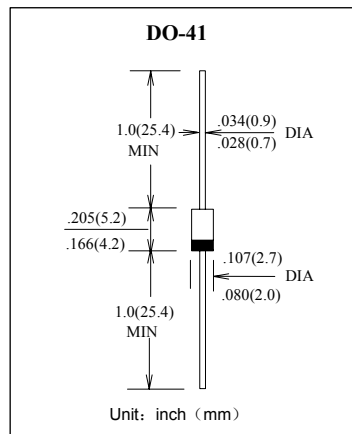
反向电压 1000V

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℃/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	RG 1C	RU 1P	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	1000		V
最大均方根电压 Maximum RMS voltage	V_{RMS}	700		V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	1000		V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	0.7	0.4	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}	10		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	T_J, T_{STG}	-50 --- +150		℃

电特性 TA = 25℃ 除非另有规定。

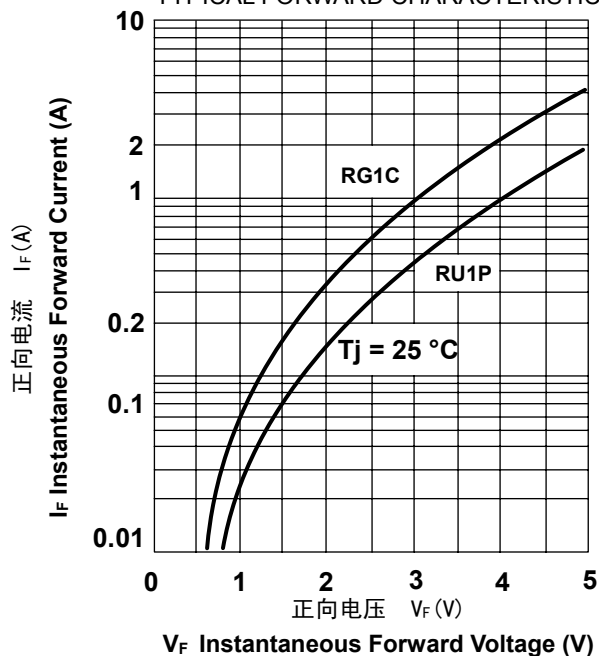
Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

	符号 Symbols	RG 1C	RU 1P	单位 Unit
最大正向电压 IF = 1.0A Maximum forward voltage	V_F	3.3	4.0	V
最大反向电流 TA= 25℃ Maximum reverse current TA=100℃	I_R	5.0 150		μA
最大反向恢复时间 IF=0.5A IR=1.0A IRR=0.25A MAX. Reverse Recovery Time	t_{rr}	75		nS
典型结电容 VR = 4.0V, f = 1MHz Type junction capacitance	C_j	12		pF

特性曲线 Characteristic Curves

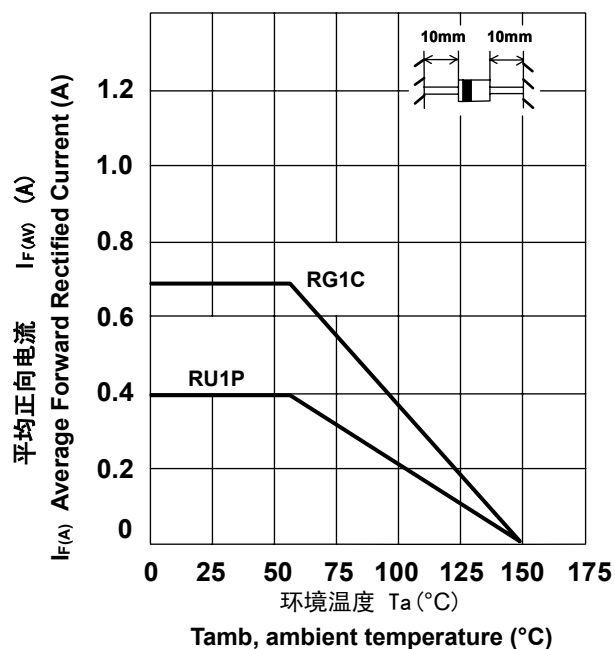
正向特性曲线（典型值）

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