

VOLTAGE RANGE: 50 - 1000V

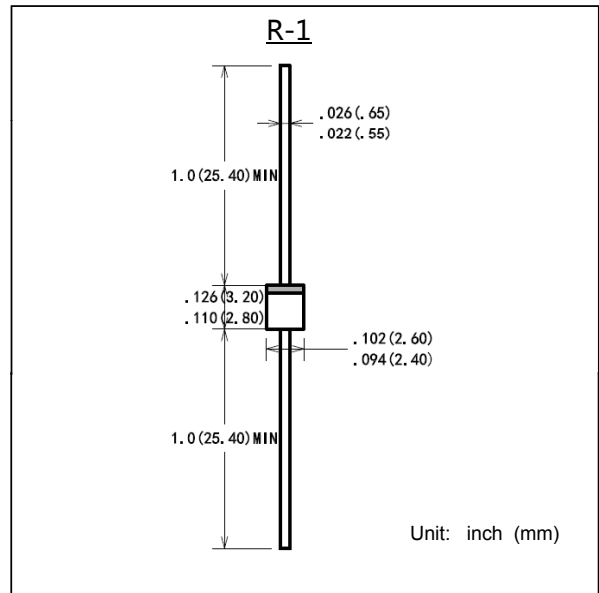
CURRENT: 1.0 A

Features

- 反向漏电流低 Low reverse leakage
- 正向浪涌承受能力强 High forward surge capability
- 高信赖性 High reliability
- 高温焊接保证 High temperature soldering guaranteed:
260℃/10 秒, 引线长度:0.375" (9.5mm)
260℃/10seconds, 9.5mm lead length
- 引线和管体皆符合RoHS标准
Lead and body according with RoHS standard

Mechanical Data

- 封装外形:R-1 塑封 Case:R-1 Molded plastic
- 环氧树脂: UL 易燃等级: 94V-0
Epoxy: UL 94V-0 rate flame retardant
- 引脚: 镀锡, 无铅 Lead: Pure tin plated, lead free
- 体系: 通过IAFT-16949体系认证 System: Accreditation through IATF16949 System
- 高可靠性等级 (AEC Q101合格) High reliability grade (AEC Q101 qualified)



Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

参数 Parameter	符号 Symbols	1A1-Q	1A2-Q	1A3-Q	1A4-Q	1A5-Q	1A6-Q	1A7-Q	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	50	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
正向不重复浪涌电流 8.3 ms单一正弦半波 Non-repetitive peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	30							A
最大正向电压 @ $I_F=1.0A$ Maximum forward voltage	V_F	1.1							V
最大反向电流 @ V_{DC} $T_A = 25^\circ\text{C}$ Maximum reverse current $T_A = 100^\circ\text{C}$	I_R	5							μA
典型热阻 Typical thermal resistance (Note 1)	$R_{\theta JA}$	65							$^\circ\text{C/W}$
典型结电容 $V_R=4.0V, f=1\text{MHz}$ Type junction capacitance	C_j	10							pF
工作结温 and 存储温度 Operating junction and storage temperature rang	T_j, T_{STG}	-55 --- +150							$^\circ\text{C}$

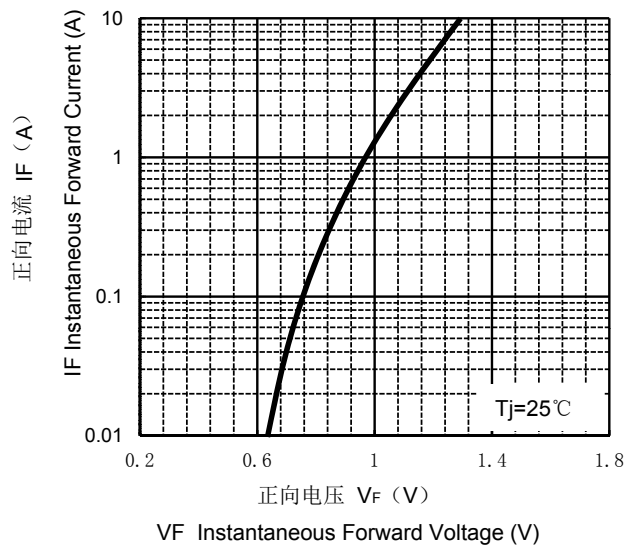
备注 Note:

1) 引线长度 0.375" (9.5 mm), 安装在PCB板上, 从PN结到周围环境的热阻。

1) Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted.

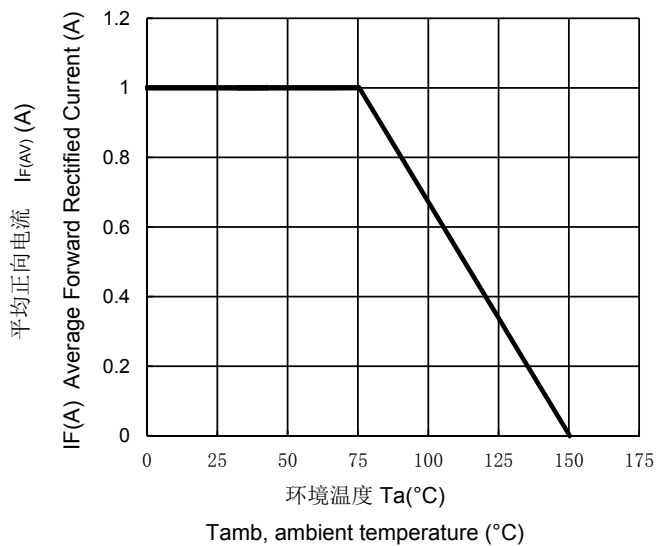
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



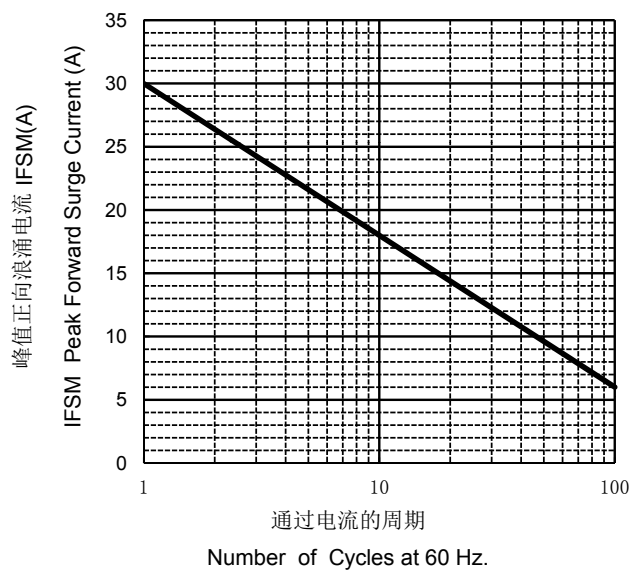
正向电流降额曲线

FORWARD CURRENT DERATING CURVE



浪涌特性曲线 (最大值)

MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



反向特性曲线

Typical Reverse Characteristics

