

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.)

参数 Parameters	符号 Symbol	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
最大均方根电压 Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
最大直流阻断电压 Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
最大正向平均整流电流 Maximum average forward rectified current	IF(AV)	1.0							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	IFSM	30							A
最大反向峰值电流 @TA = 75 Maximum peak reverse current full cycle	IR(AV)	30							uA
典型热阻 T ypical thermal resistance	RθJA	65							/W
工作结温和存储温度 Operating junction and storage temperature range	Tj, TSTG	-50-+150							

电特性 (TA = 25 除非另有规定)

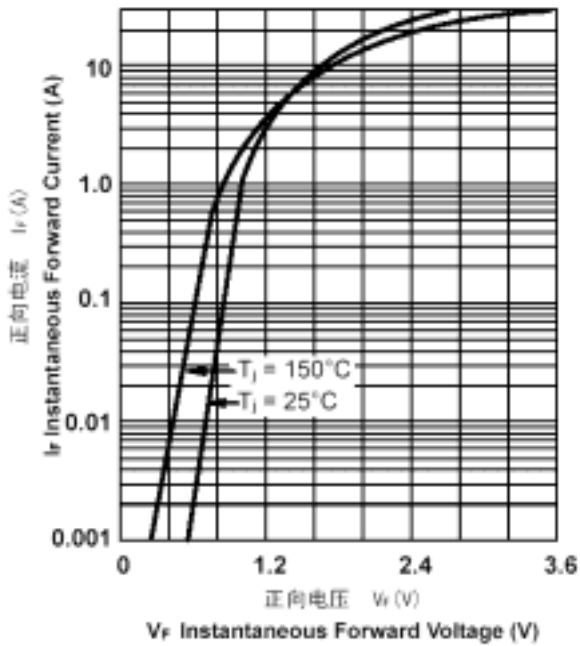
Electrical Characteristics (Ratings at 25 ambient temperature unless otherwise specified).

参数 Parameters	符号 Symbol	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	单位 Unit
最大正向电压 IF = 1.0A Maximum forward voltage	VF	1.1							V
最大反向电流 TA= 25 Maximum reverse current TA=100	IR	5.0 100							uA
典型结电容 VR = 4.0V, f = 1MHz Type junction capacitance	Cj	15							pF

特性曲线 Characteristic Curves

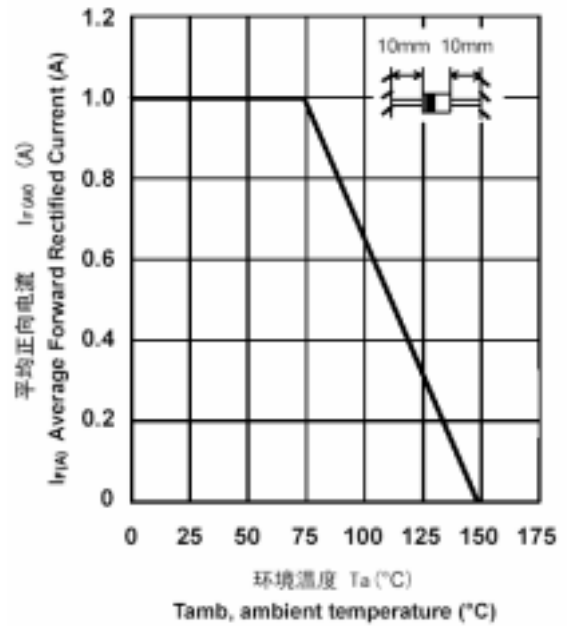
正向特性曲线 (典型值)

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

