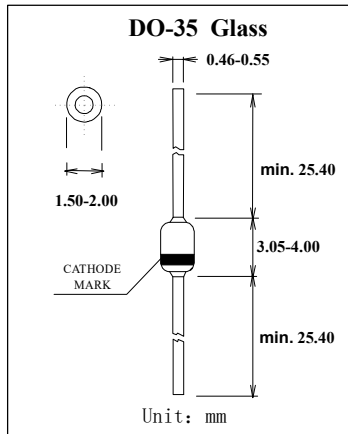


开关二极管 Switching Diodes



特征 Features

- 反向漏电流小。Low reverse leakage
- 开关速度快。Fast switching speed
- 最大功率耗散500mW。Maximum power dissipation 500mW
- 高稳定性和可靠性。High stability and high reliability

机械数据 Mechanical Data

封装：D0-35 玻璃封装 Case: DO-35 Glass Case

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 Symbols	1N4148	1N4448	单位 Unit
不重复峰值反向电压 Non-repetitive Peak Reverse Voltage	V_{RM}	100		V
反向峰值电压 peak repetitive Reverse Voltage	V_{RRM}	75		V
最大正向平均电流 (Note 1) Forward Continuous Current (Note 1)	I_{FM}	300	500	mA
平均整流输出电流 (Note 1) Average Rectified Output Current (Note 1)	I_o	150		mA
正向（不重复）浪涌电流 Non-Repetitive Peak Forward Surge Current	I_{FSM}	1.0 2.0		A
功率消耗 Power Dissipation	P_d	500		mW
典型热阻 (Note 1) Type Thermal Resistance (Note 1)	$R_{\theta JA}$	300		K/W
工作结温和存储温度 Operating junction and storage temperature range	T_j, T_{STG}	-65 --- +175		°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 Symbols	最小值 MIN.	最大值 MAX.	单位 Unit	测试条件 Test Condition
正向电压 Forward voltage	V_{FM}	---	1.0 0.62 1.0	V	$I_F = 10mA$ $I_F = 5.0mA$ $I_F = 100mA$
反向电流 Reverse current	I_{RM}	---	5.0 50 30 25	μA μA μA nA	$V_R = 75V$ $V_R = 70V, T_j = 150^\circ C$ $V_R = 20V, T_j = 150^\circ C$ $V_R = 20V$
结电容 Junction capacitance	C_j	---	4.0	pF	$V_R = 0, f = 1.0MHz$
反向恢复时间 Reverse Recovery Time	t_{rr}	---	4.0	nS	$I_F = 10mA$ — $I_R = 1.0mA$ $V_R = 6.0V, R_L = 100\Omega$

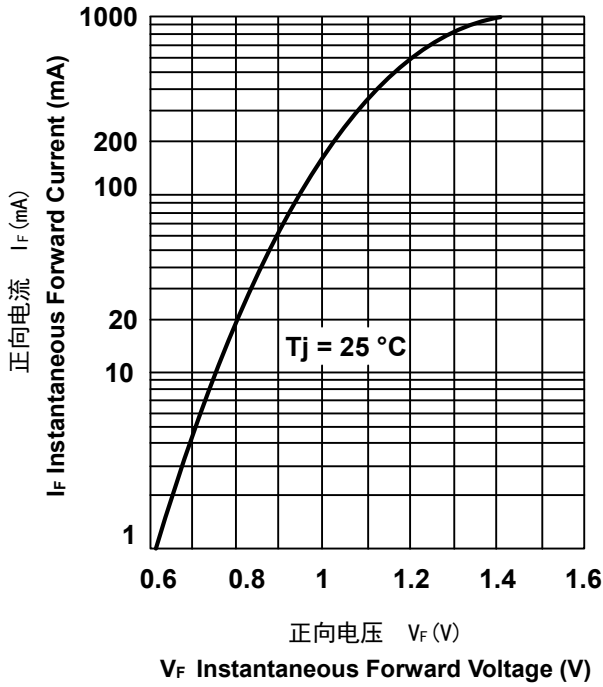
NOTES: 1. Valid provided that device terminals are kept at ambient temperature



特性曲线 Characteristic Curves

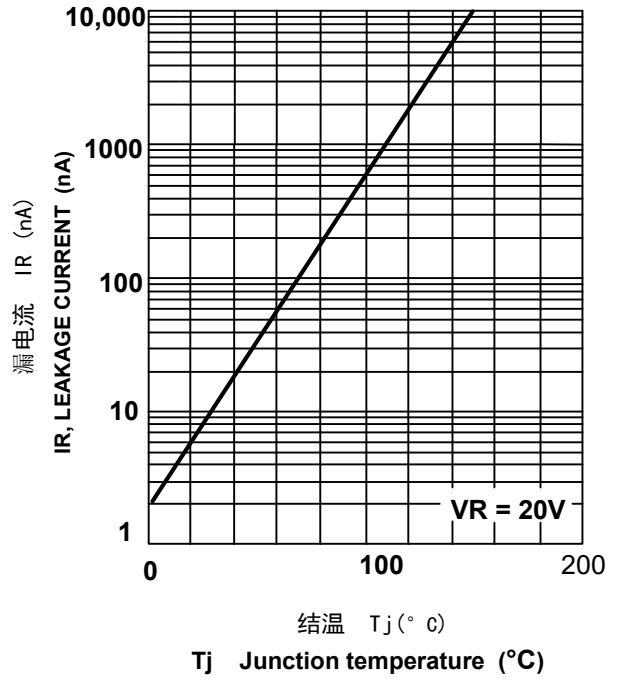
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



泄漏电流和结温

LEAKAGE CURRENT VS JUNCTION TEMPERATURE



功率耗散降额特性曲线

ADMISSIBLE POWER DISSIPATION

