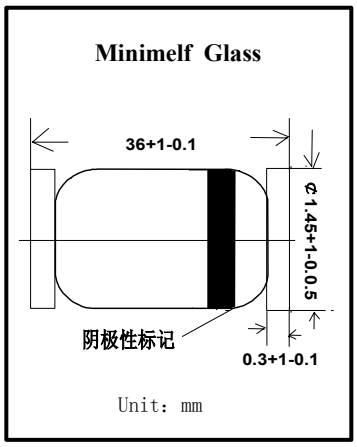
快速开关二极管 Fast Switching Diodes



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:迷你 玻璃封装 Case: Glass Case Minimelf

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.

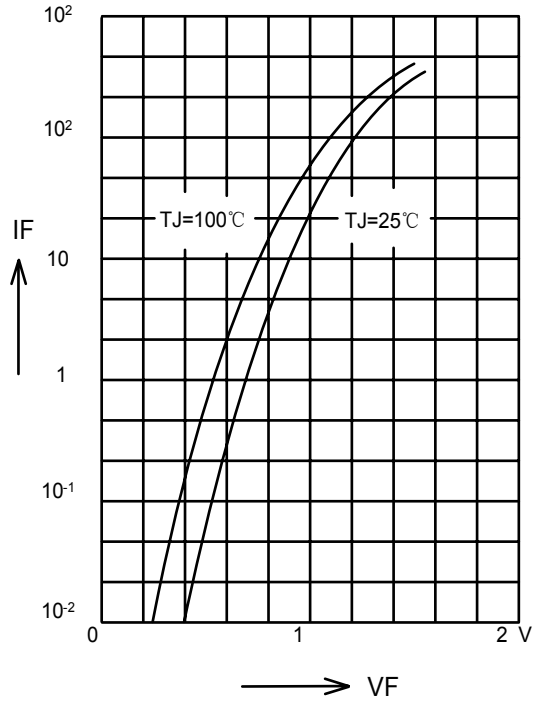
	符号 *Symbols*	LL4148	单位 Unit
不重复峰值反向电压 Non-repetitive Peak Reverse Voltage	V_{RM}	100	V
反向峰值电压 peak repetitive Reverse Voltage	V_{RRM}	75	V
最大正向平均电流 Forward Continuous Current	I_{FM}	300	mA
平均整流输出电流 Ta=25℃ f=50Hz Average Rectified Output Current	I_O	150	mA
正向（不重复）浪涌电流 TJ=25℃ Non-Repetitive Peak Forward Surge Current	I_{FSM}	500	mA
功率消耗 Power Dissipation	Pd	500	mW
典型热阻 Type Thermal Resistance	$R_{\theta JA}$	0.35	K/mW
工作结温和存储温度 Operating junction and storage temperature range	Tj, T_{STG}	-65 --- +175	℃

电特性 TA = 25℃ 除非另有规定。

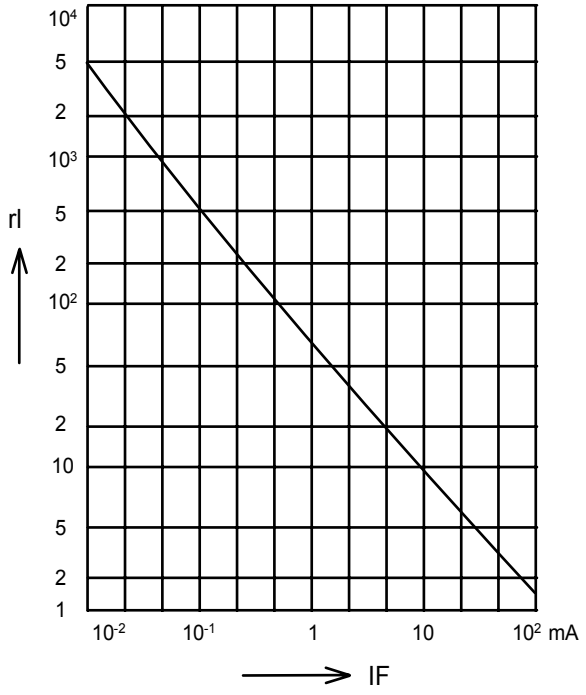
Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

	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 LL4148	V_{FM}	---	1.0	V	I_F =10mA
反向电流 Reverse current	I_{RM}	---	25 5 50	nA uA uA	V_R = 20V V_R = 75V V_R = 20V, Tj=150℃
结电容 Junction capacitance	Cj	---		pF	V_R = 0, f = 1.0MHz
反向恢复时间 Reverse Recovery Time	trr	---	4.0	nS	I_F = 10mA — I_R = 1.0mA V_R = 6.0V, R_L =100Ω

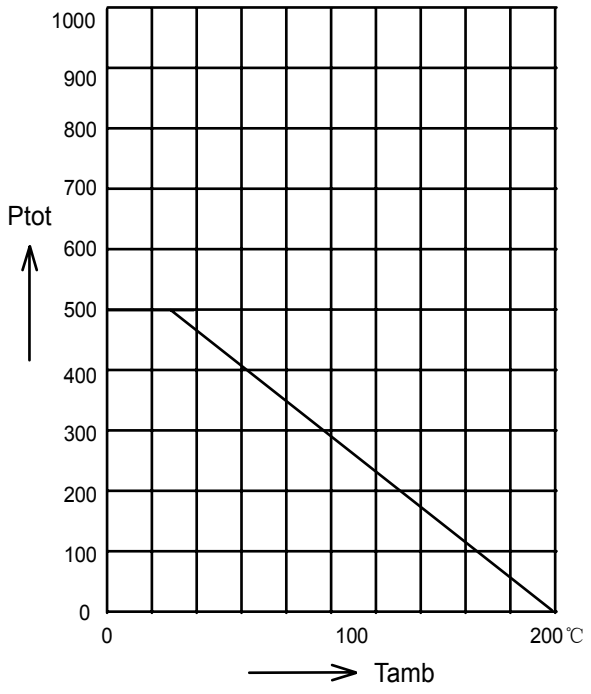
正向特性曲线图



动态正向电阻VS.正向电流



功率耗散降额特性曲线



结电容VS.反向电压