

Spec. No.: HL1207-2P059B

Issued Date: 2021-05-28

SPECIFICATION

Model Name: Detector

Model NO. : HL1207-2P059B

Customer No.:GT101-Ø1

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Approved by: Judy. Zhu

Customer approved by:



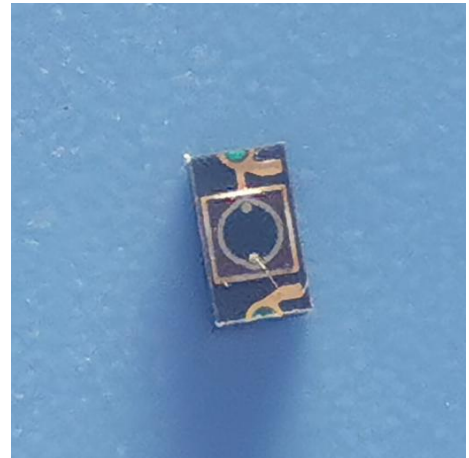
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Detector

HL1207-2P059B

■Features

器件为硅 PIN 光电二极管，在反向偏置条件下工作，光谱响应范围从可见光到近红外，峰值响应波长 930nm。



◆ 特点

- 平面正照结构
- 低暗电流
- 高响应度
- 高可靠性

◆ 应用

- 光纤通信、传感、测距
- 可见光至近红外领域的光探测快速光脉冲检测
- 各种工业控制系统

◆ 结构/最大绝对额定值

器件型号	封装形式	光敏面尺寸 (mm)	最大工作电压 (V)	工作温度 (℃)	储存温度 (℃)	焊接温度 (℃)	饱和光功率 (W/cm ²)
GT101Φ 0.2	塑封	Φ 0.2	40	-40~100	-55~125	260	0.3
GT101Φ 0.5		Φ 0.5					
GT101Φ 1		Φ 1.0					

◆ 光电性能 (@Ta=25℃)

器件型号	光谱响应范围 (nm)	峰值响应波长 (nm)	响应度 λ =900nm (A/W)	暗电流 V _r =15V (nA)	上升时间 λ =900nm V _r =15V R _L =50Ω (ns)	结电容 V _r =15V f=1MHz (pF)	击穿电压 (V)
GT101Φ 0.2	400~1100	930	0.63	0.1	4	0.8	>200
GT101Φ 0.5					5	1.2	
GT101Φ 1					5	2.0	

◆ 典型特性曲线 (@Ta=25℃)

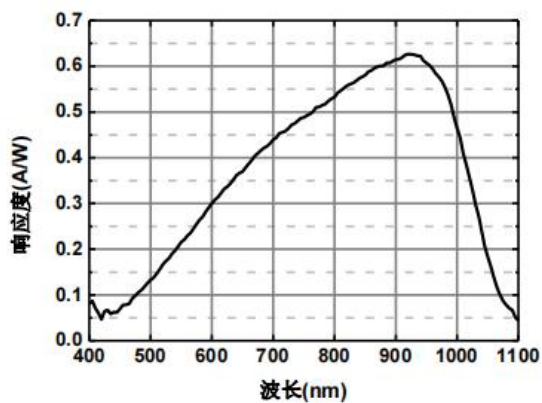


图1 光谱响应曲线

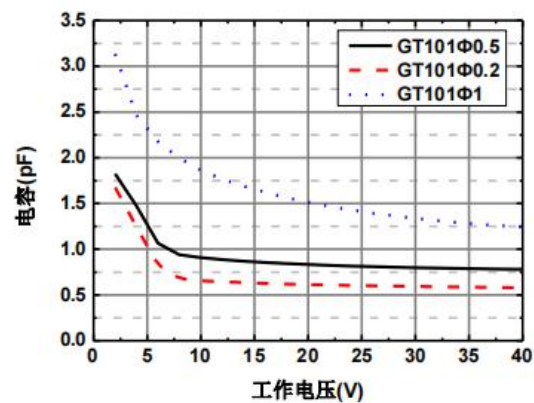
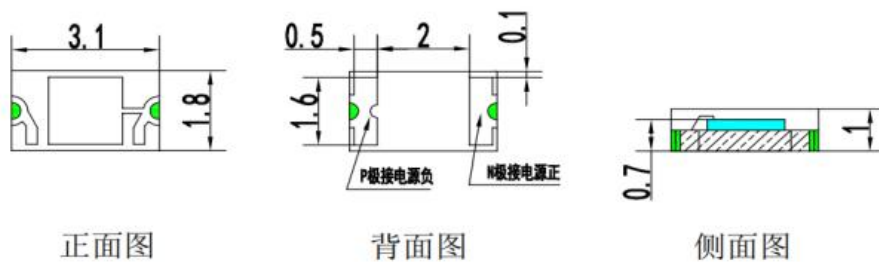


图2 电容与工作电压关系曲线

◆ 封装外形、尺寸及引脚定义

■ GT101Φ 0.2/GT101Φ 0.5/GT101Φ 1



◆ 应用电路

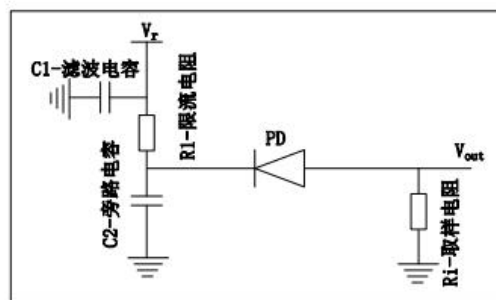


图3 应用电路图

■ Storage and Soldering Condition

1. Do not open moisture proofs bag before the products are ready to use
2. Before opening the package, the LEDs should be kept at 30℃ or less and 90% RH or less.
3. The LEDs should be used within a year.
4. After opening the package, the LEDs should be kept at 30℃ or less and 70% RH or less.
5. The LEDs should be used within four weeks after opening the package.
6. If the moisture adsorbent material (silica gel) has fabled away or the LEDs have exceeded the storage time, baking treatment should be performed using the following conditions. Baking treatment: 60±5℃ for 24 hours.
7. When soldering, do not put stress on the LEDs during heating.
8. After soldering, do not warp the circuit board
9. Each terminal is to go to the tip of soldering iron temperature less than 260℃ for 5 seconds within once in less than the soldering iron capacity 25W. Leave tow seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand solder.