

Spec. No.: HL3040-2P090B-NNNN

Issued Date: 2016-12-5

SPECIFICATION

Model Name: Detector

Model NO. : HL3040-2P090B

Customer No.:

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Customer approved by: _____



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Deterctor

HL3040-2P090B

■Features

- Especially suitable for applications of 940nm.
- Short switching time

■Applications

- SPO2
- Optical module
- IR Remote controls of various equipment



Name	Model No.	Chip Size		Package
Detector	HL3040-2P090B	5.25mm ²	2.29mm×2.29mm	2-Pin, COB

■Absolute Maximum Ratings at Ta=25℃

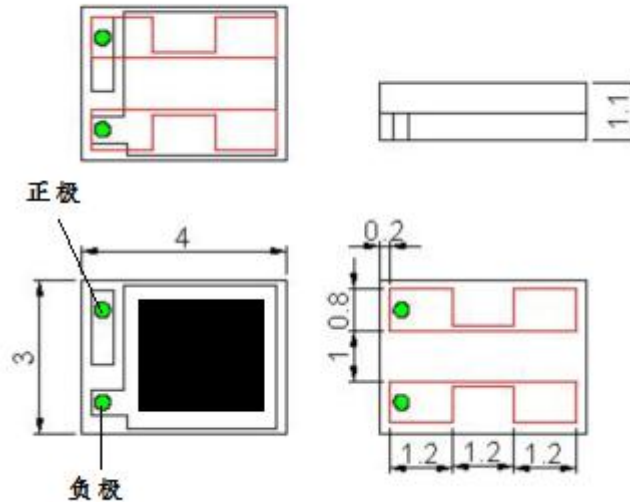
Parameter 参数	symbol 符号	Max.最大值	unit 单位	Note 备注
Operating Temperature	T _{opr}	-25~+85	℃	---
Storage Temperature	T _{Stg}	-40~+100	℃	---
Soldering Temperature	T _{S01}	≤260	℃	260℃ for 5 Seconds (260 度小于等于 5 秒)

■Electrical / Optical Characteristics at TA=25℃

Parameter(参数)	Symbol	Min.	Typ.	Max.	Units	Test Conditions
	符号	最小值	规格值	最大值	单位	测试条件
Forward Voltage	V _F	0.5	--	1.3	V	IF=20mA,H=0
Reverse Breakdown Voltage	V _{BR}	35	--	--	V	IR=100uA,H=0
Reverse Dark Current	I _D	--	--	20	nA	VR=10V,H=0
Light current	I _L	--	135	--	uA	VR=5V,H as 1mw/cm2@940nm
Peak Sensing Wavelength	λ _p	--	940	--	nm	--
Spectral Bandwidth	Λ _{0.5}	400	--	1100	nm	--
Junction Capacitance	C _J	--	5	--	pF	VR=3V,H=0,F=1MHz

Note(1):Parallel Light of 1000lux illumination is applied by a tungsten lamp of 2856k

■Dimension:



Notes: 1.All dimensions are in millimeters
2.Tolerances unless dimensions $\pm 0.1\text{mm}$

■ 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°C 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°C or less and 70% RH or less.
5. The LEDs should be used within 168 hours (7 days) 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: $60\pm 5^{\circ}\text{C}$ 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°C 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.

关于 3040 接收管过回流焊使用说明

1. 3040 接收管由于产品胶体面积比较小而薄，而芯片面积较大而又厚，导致胶体覆盖面积少而薄，芯片与胶体的受热膨胀系数之间存在一定的差异，所以在过高温回流焊时胶体与芯片之间会出现鼓包现象，同时 3040 这款产品焊接面是在底部，所有不能用烙铁焊接。
2. 针对以上情况此款产品目前只能用焊台加热焊接，温度：210-250 度之间比较好，同时加热时间要快（最好 5 秒内完成作业），最终以客户自己的锡膏融点温度为准，建议使用中、低温锡为最佳，焊接第一个时做好首件，再继续下一步作业。
3. 如果客户一定要使用回流焊作业时，请用低温锡膏，建议 200 度左右测试，找到最适合贵司的焊接温度点，这款产品我司不建议使用回流焊作业，同时我司也在改进。