

# 樣品規格承認書

## SAMPLE APPROVAL SHEET

客戶名稱

Company Name : \_\_\_\_\_

產品型號

Part Number: \_\_\_\_\_ CPD-245-P90

送樣日期

Sample Date: \_\_\_\_\_

APPROVED SIGNATURES (供應商確認)		
核准	品保	工程

客戶確認：樣品承認通過 不予承認需重新送樣 不予承認不用送樣

客戶建議：

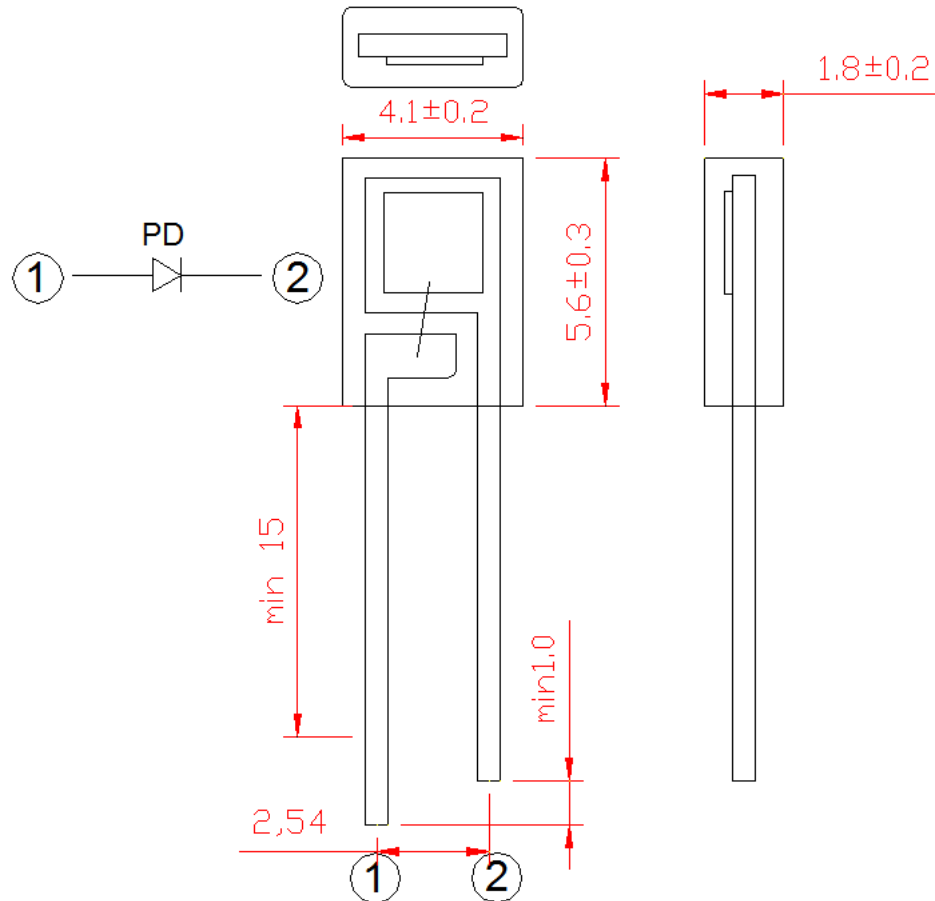
APPROVED SIGNATURES (客戶確認)		
核准	工程	品保

請貴司確認回傳，謝謝！

## 1、Features (特征)

- (1). 4.1\*5.6\*1.8 mm ELLIPSE LAMP  
4.1\*5.6\*1.8 mm 红外接收二极管
- (2).LOWCURRENT REQUIREMENT  
(低电流驱动)
- (3).LOWPOWER CONSUMPTION  
(低功率消耗)
- (4).VERSATILE MOUNTING ON P.C. BOARD PANE  
(易安装)
- (5).LONG LIFE-SOLID STATE RELIABILITY  
寿命长

## 2、Package Dimensions(封装尺寸) unit :mm



### Notes:

- (1).All dimensions are in millimeters.  
(单位: 毫米)
- (2).Tolerance is  $\pm 0.25$  unless otherwise noted.  
(尺寸公差:  $\pm 0.25$ ,另有标注除外.)
- (3).Specifications are subject to change without notice.  
(规格若有变动,恕不另行通知)

**3、 Absolute Maximum Ratings at T<sub>A</sub>=25°C (在25°C环境下之最大绝对额定值)**

Parameter(参数)	Symbol(符号)	Maximum Rating(最大值)	Units(单位)
Power dissipation(功率消耗)	P <sub>D</sub>	100	mW
Reverse Breakdown Voltage (反向击穿电压)	V <sub>(BR)</sub>	20	V
Reverse Voltage(反向电压)	V <sub>R</sub>	5 V	
Operating Temperature(操作温度)	T <sub>opr</sub>	-25°C To +85°C	
Storage Temperature(贮藏温度)	T <sub>stg</sub>	-40°C To +100°C	
Lead Solder Temperature(2)(焊接温度)	T <sub>sol</sub>	260°C for 3 seconds	

**4、 Electrical / Optical Characteristics at T<sub>A</sub>=25°C (25°C环境下之电性/光学特性)**

Parameter(参数)	Symbol (符号)	Min. (最小值)	Typ. (规格值)	Max. (最大值)	Units (单位)	Test Conditions (测试条件)
Reverse Breakdown Voltage (反向击穿电压)	V <sub>(BR)</sub>	20	--	40	V	I <sub>R</sub> =100uA, E <sub>e</sub> =0mW/cm <sup>2</sup>
<b>Reverse Dark Current</b> (反向暗电流)	I <sub>D</sub>	--	2	10	nA	V <sub>R</sub> =10V, E <sub>e</sub> =0mW/cm <sup>2</sup>
Short Circuit Current (短路电流)	I <sub>sc</sub>	2.5	3.0	3.5	uA	E <sub>V</sub> =100Lus λ <sub>p</sub> =940nm
<b>Rise Time</b> (起动时间)	T <sub>r</sub>	--	30	--	nS	V <sub>R</sub> =20V, λ=940nm R <sub>L</sub> =50 Ω
<b>Fall Time</b> (结束时间)	T <sub>f</sub>	--	30	--	nS	V <sub>R</sub> =20V, λ=940nm R <sub>L</sub> =50 Ω
<b>Forward Voltage</b> (正向电压)	V <sub>F</sub>	0.5	--	1.3	V	I <sub>F</sub> =1mA
<b>Peak Sensing Wavelength</b> (峰值波长)	λ <sub>p</sub>		940		nm	
Spectral Sensitivity(波长范围)	λ	400		1050	nm	Spectral Sensitivity(波长范围)
<b>Total Capacitance</b> (总电容量)	C <sub>T</sub>		44		P <sub>F</sub>	V <sub>R</sub> =5V, f=1MHz E <sub>e</sub> =0 mW/cm <sup>2</sup>

Note:

(1).1/10 Duty Cycle, 0.1ms Pulse Width.

(1/10周期, 0.1ms脉宽)

(2).3mm below package base.

(在胶体3毫米以下焊接)

(3).The production accord with the demand of ROHS.

(此产品符合ROHS要求.)

5 Electrical / Optical Characteristics at T<sub>A</sub>=25°C (25°C)\* + 34 /56 14 )

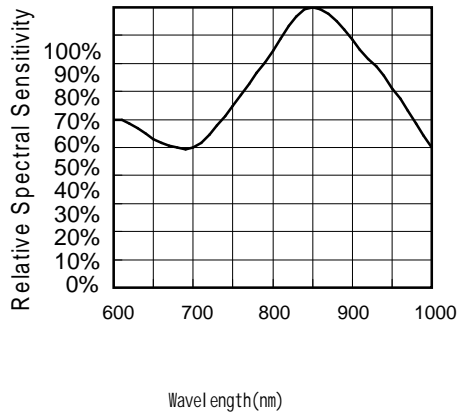


FIG.1 Relative Spectral Sensitivity vs. Wavelength

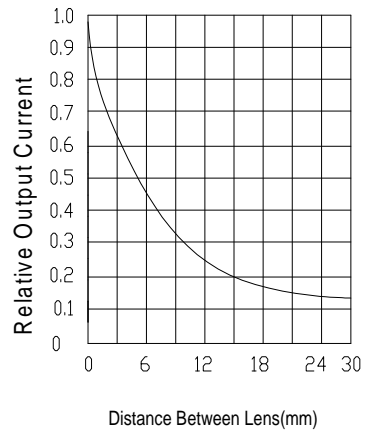


FIG.2 Coupling Characteristics

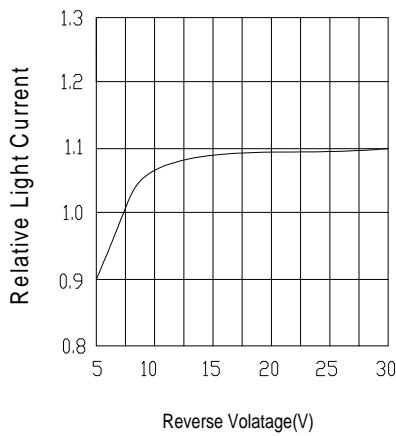


FIG.3 Vr vs Relative IL

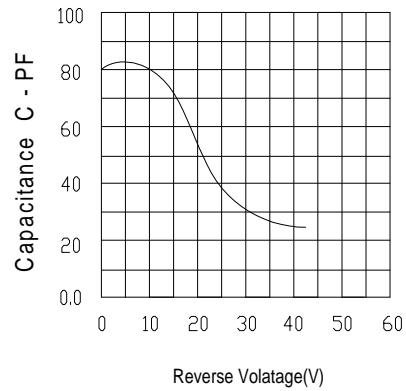


FIG.4 VR vs CT

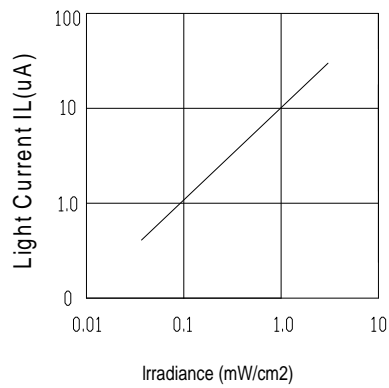


FIG.5 IL vs Iv

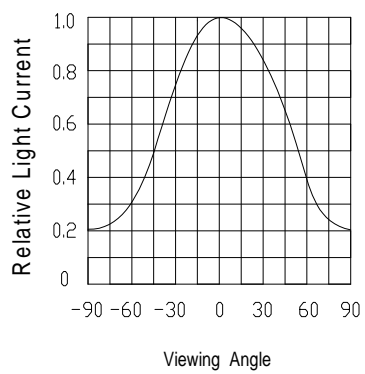


FIG.6 Angle VS Relative IL

