



DONGGUAN ZHOUCHUANG INDUSTRIAL CO., LTD

东莞市洲创实业有限公司

SPECIFICATION FOR APPROVAL

规 格 书

Customer Name (客户名称): 中山市宏海塑胶科技有限公司

Customer Part Number(客户料号):

Product Model(产品型号): ZC-5030RGB7CDT/160415-1

Facade Depict(外观描述): 5.0*3.0MM贴片, 颜色传感器

DATE(日期): 2016年4月15日

CUSTOMERCONFIRM

客 户 确 认

 2016年4月15日	ENGINEER 工 程 黄火木 2016年4月15日	DRAWING 制 表 涂俊俊 2016年4月15日
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东莞市洲创实业有限公司

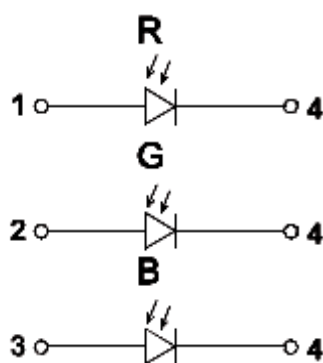
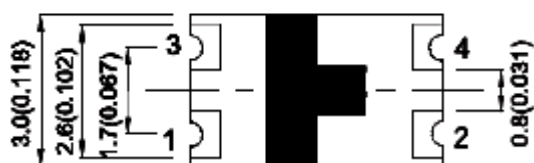
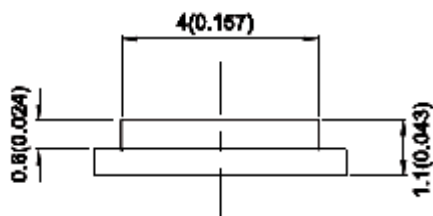
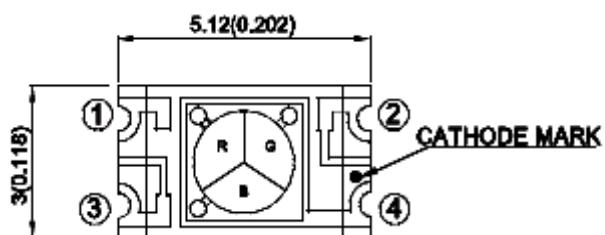
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●Pack Dimensions (mm)封装尺寸:



4. Cathode
1.2.3. Anode

Notes:

1. All dimension units are millimeters. (所有标注尺寸的单位均为毫米)
2. All dimension tolerance is $\pm 0.25\text{mm}$ unless otherwise noted. (除了特别注明,所有标注尺寸的公差均为 $\pm 0.25\text{mm}$)

●Applications 应用:

The devices are suitable for :

- colorimetry.
- printing process control.
- display color correction.

●Features 产品特性:

Lead-free package.

Component in accordance with RoHS.

SMD style package on PCB technology.

Integral Color Filter in Blue, Green,or Red.

Package:1500 pcs/Reel.

Moisture sensitivity level : level 3.

RoHS Compliant.

●Absolute Maximum Ratings (Ta=25° C) 最大额定值:

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	10	V
Operating Temperature	T_{opr}	-40~+85	°C
Storage Temperature	T_{sto}	-40~+85	°C
Soldering Temperature	T_{sd}	260	°C

●Electro-Optical Characteristics(Ta=25°C,and Vcc=3.0V)

Parameter	Symbol	Conditions	Value			Unit
			MIN	TYP	MAX	
Peak Sensitivity Wavelength	λ_p	Red	-	620	-	nm
		Green	-	550	-	
		Blue	-	470	-	
Light Current(1)	I_{L1}	100Lux ^[1] VR = 5V Red	-	0.039	-	uA
		Green	-	0.042	-	
		Blue	-	0.022	-	
Light Current(2)	I_{L2}	1000Lux ^[1] VR = 5V Red	-	0.427	-	uA
		Green	-	0.498	-	
		Blue	-	0.262	-	
Diameter of the irradiation sensitive area	D		-	-	2.0	mm
Irradiation sensitive area per element	A		-	-	0.85	mm ²
Photo sensibility of the single color areas	Smax	$\lambda_R=620\text{ nm}$ $\lambda_G=550\text{ nm}$ $\lambda_B=470\text{ nm}$	-	-	0.33 0.25 0.18	A/W
Reverse Dark Current	ID	VR=5V	-	-	10	nA

●Typical optical characteristics curves 典型的光学特性曲线:

Fig.1 Dark Current vs. Ambient Temperature

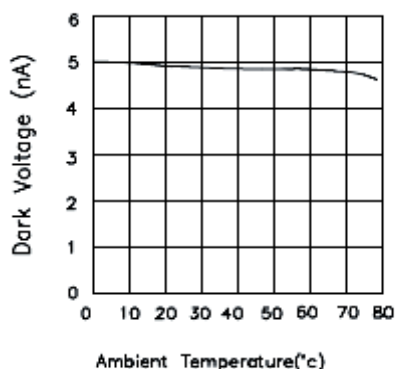


Fig.2 Spectral Response

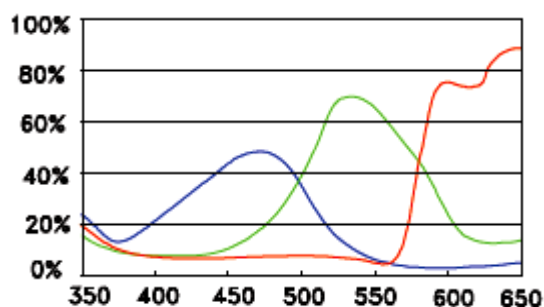


Fig.3 Relative radiant sensitivity vs. Angular displacement

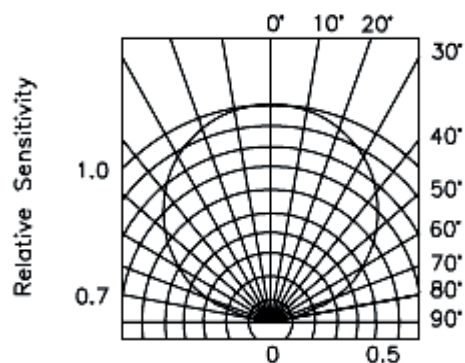


Fig.4 R,G,B LED Test vs. Output Photocurrent

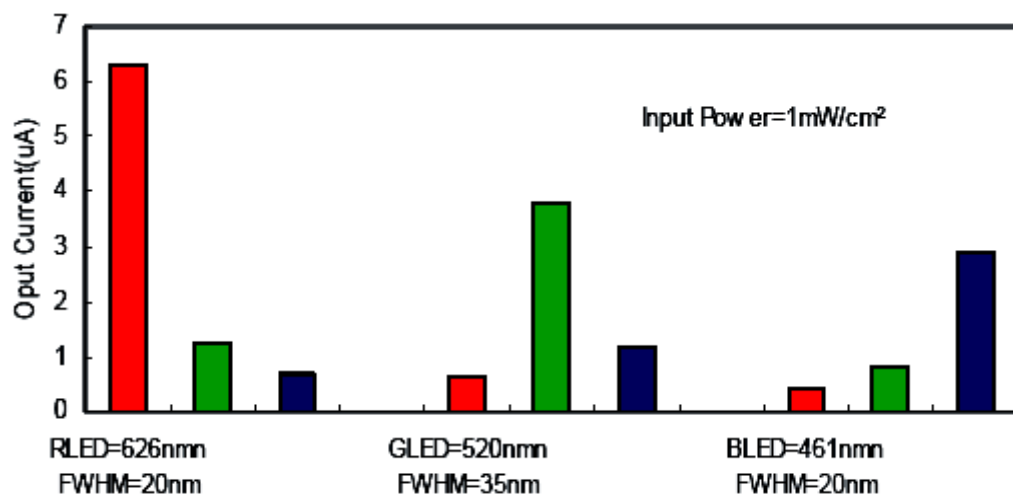
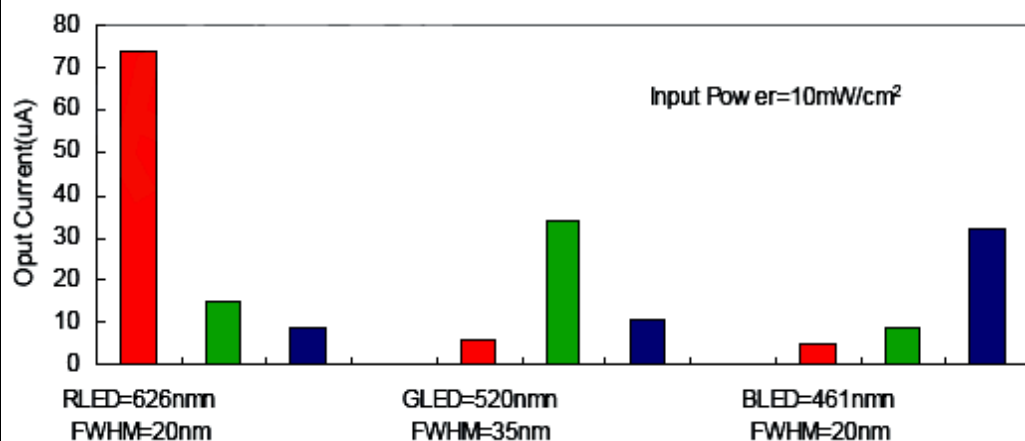
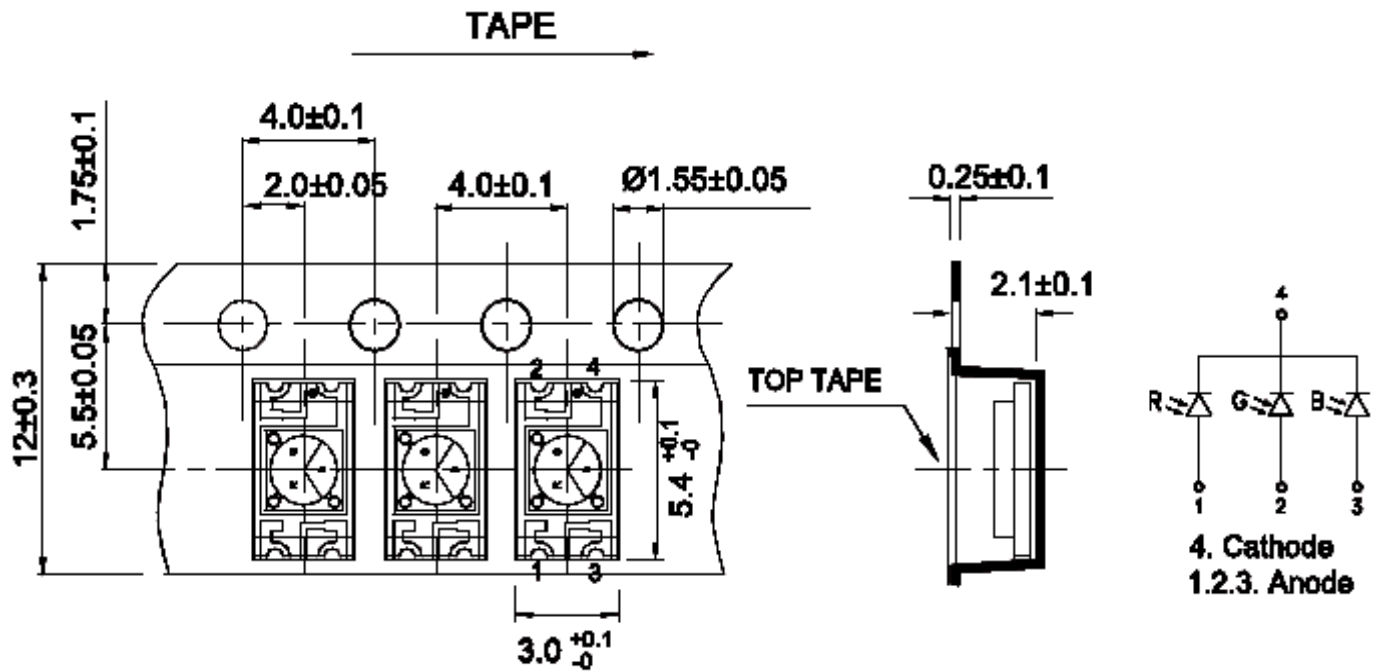


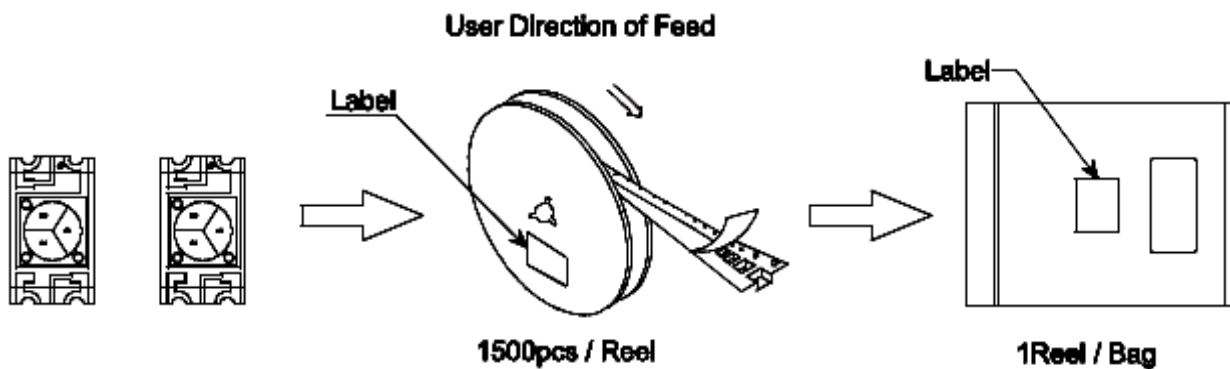
Fig.5 R,G,B LED Test vs. Output Photocurrent



●Tape Specifications (Units : mm) 载带规格 (单位 : mm)



●Moisture Resistant Packaging 防潮带包装:



●Recommended Soldering Pattern (Units : mm) 推荐焊盘尺寸: (单位 : mm)

