



健隆投資有限公司  
STRONG BASE INVESTMENT  
LTD.

Unit 17, 11/F., Hewlett Centre, 52-54 Hoi Yuen Road, Kwun Tong, Kowloon, Hong Kong.  
Tel: (852) 2793 3293 Fax: (852) 2793 3096



Approval Sheet  
(確認書)

編號 Ref. No.	
日期 Issued Date	2019-08-05

公司名稱 : \_\_\_\_\_  
Company Name

產品編號 : 33RB9SCA01  
Part No.

產品種類 : LED-LAMP  
Category

產品描述 : 3MM/ SUPER BRIGHT WATER CLEAR LED  
Description

客戶產品編號 : \_\_\_\_\_  
Customer No.

備注 : \_\_\_\_\_  
Remarks

STRONG BASE			
ISSUER	APPROVER	CHECKER	ENGINEER
	朱美丽	覃寿芝	黄曼园
Authorized Signature 客戶簽字			
部門 Department			
簽字 Signature			

工廠名稱:宇之亮電子(深圳)有限公司

工廠地址:廣東省深圳市龍崗區橫崗鎮荷坳村金源工業區

Company Name: Pretty Light (Shen Zhen) Limited

Factory Address:jin-Yuan,Industrial Zone He-Ao Cun,Heng-Gang



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email: [inquiry@strongbase.com](mailto:inquiry@strongbase.com)



**PART NO. : 33RB9SCA01**

**DATE :15 August 2024**

**3MM/SUPER BRIGHT WATER CLEAR LED**

**Zhen Long-Gang Area,Shen-Zhen City,**

**TEL: (755) 89767303**

**FAX: (755) 89767754 8976 7556**



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3MM/SUPER BRIGHT WATER CLEAR LED

**SPECIFICATION**

**ABSOLUTE MAXIMUM RATING (Ta=25°C)**

Item	Symbol	Rating		Unit
Power Dissipation	P <sub>D(AVG)</sub>	RED	80	mW
		BLUE	85	
Forward Current	I <sub>F</sub>	20		mA
Peak Forward Current (1/10 Duty Cycle, 0.1 ms Pulse Width)	I <sub>FP</sub>	RED	100	mA
		BLUE	100	mA
Reverse Voltage	V <sub>R</sub>	5		V
Operating Temperature	T <sub>opr</sub>	-40~+85		°C
Storage Temperature	T <sub>stg</sub>	-40~+85		°C

**ELECTRICAL/OPTICAL CHARACTERISTICS RATING (Ta=25°C)**

Item	Symbol	Test Conditions	Color Emitted	Rating			Unit
				Min.	Typ.	Max.	
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	RED	1.7	1.9	2.4	V
			BLUE	2.6	3.0	3.6	
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	RED	---	---	10	μA
			BLUE	---	---	10	
Luminous Intensity	I <sub>V</sub>	I <sub>F</sub> =20mA	RED	---	400	---	mcd
			BLUE	---	800	---	
Dominant Wave Length	λ <sub>d</sub>	I <sub>F</sub> =20mA	RED	---	630	---	nm
			BLUE	---	468	---	
Viewing Angle 2θ <sub>1/2</sub>	2θ <sub>1/2</sub>	I <sub>F</sub> =20mA		40°			deg.

**Notes:-**

1) θ<sub>1/2</sub> is the off-axis angle where the luminous intensity is half the optical centerline value.

**Soldering Conditions** : Soldering Temp. ≤ 260°C

Soldering Time ≤ 5 Sec.



: ESD protection measures shall be considered and taken in the initial design stage, because static electricity and surge could damage the LED.

**Caution** A wrist band or an anti-electrostatic glove should be used when handling Electrostatic Sensitive Devices.

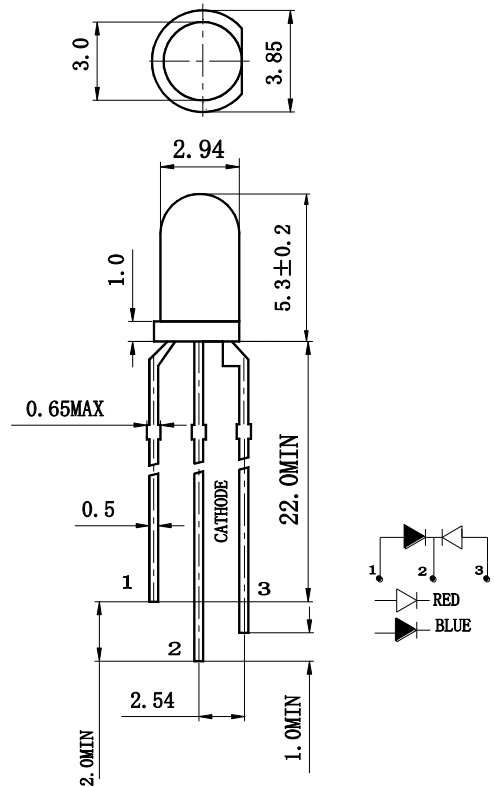
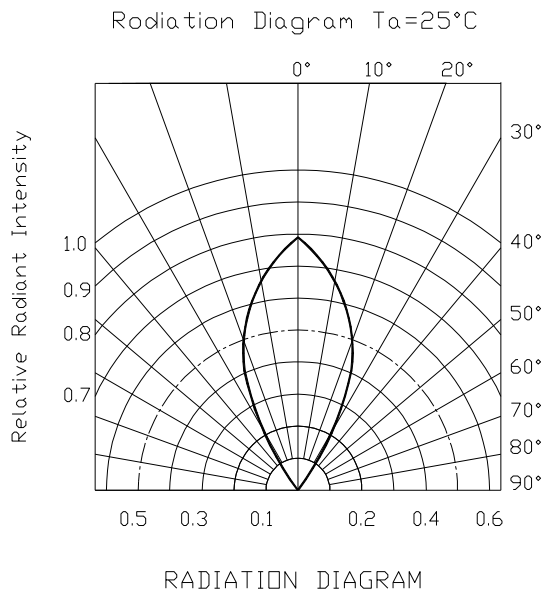


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3MM/SUPER BRIGHT WATER CLEAR LED

**PACKAGE DIMENSION**



**RED & BLUE**

1. Anode BLUE
2. Common Cathode
3. Anode RED

**Tolerance: ± 0.25(0.01)**

**Unit: mm(inch)**

Item	Materials
Resin(Mold)	Epoxy Resin
Lead Frame	Copper Alloy

Part Number	Emitting Color	Lens Type
33RB9SCA01	RED	WATER CLEAR
	BLUE	



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**3MM/SUPER BRIGHT WATER CLEAR LED**

**Typical Electrical/Optical Characteristics Curves**

**Spectral Distribution**

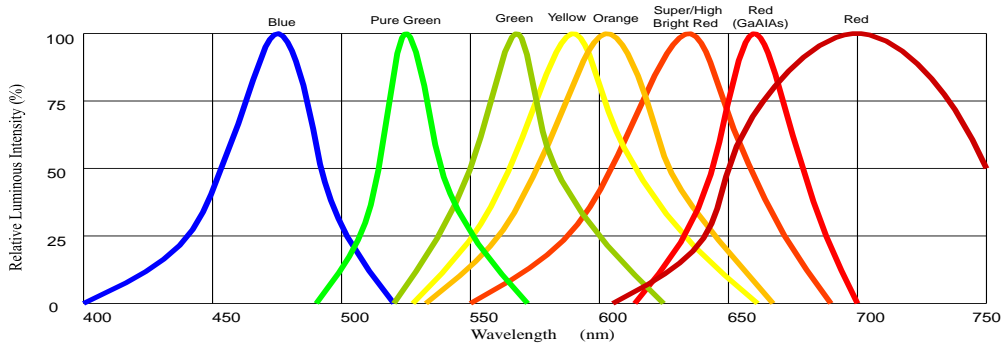


Fig1.Forward Current vs.Forward Voltage

Fig2.Relative Intensity vs. Forward Current

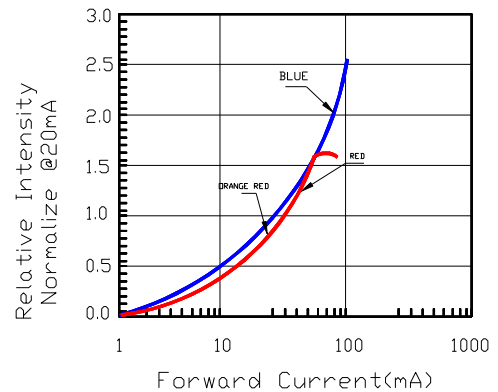
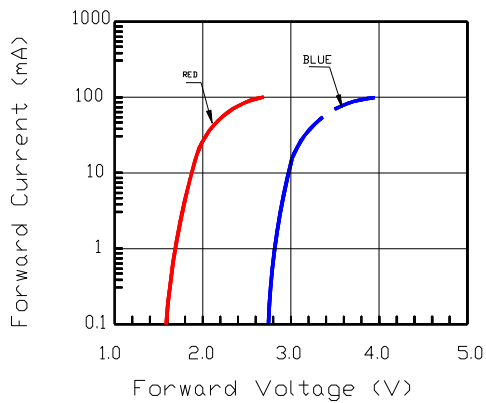
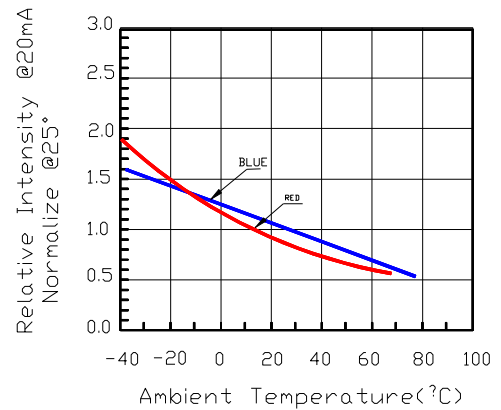
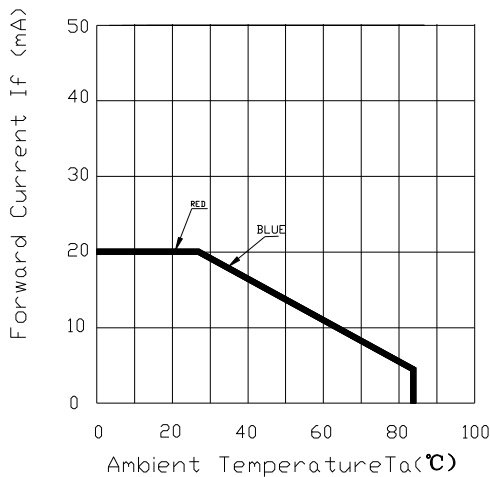


Fig3.Forward Current Derating Curve

Fig4.Relative Intensity vs. Temperature



LED lamp use explain



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If there are 2 lights lamp use, according to the (PRETTY LIGHT) each small packaging labeled BIN to separate the use.

此产品在多颗使用时，需按照字之亮每小包上标示的 BIN 级来分开使用