



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

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Approval Sheet  
(確認書)

編號 Ref. No.	
日期 Issued Date	2021-10-26

公司名稱 : OZ  
Company Name

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產品編號 : 5R3HD-10-TB  
Part No.

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產品種類 : LED-LAMP 仅供参考  
Category

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產品描述 : 5MM/HIGH BRIGHT RED ,RED DIFFUSED  
Description

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客戶產品編號 :  
Customer No.

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備注 :  
Remarks

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STRONG BASE			
ISSUER	APPROVER	CHECKER	ENGINEER
	黃志强	廖志平	冯健俊

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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**PART NO. : 5R3HD-10-TB**

**DATE : 24 December 2021**

**5MM/HIGH BRIGHT RED ,RED DIFFUSED**

**SPECIFICATION**

**ABSOLUTE MAXIMUM RATING (Ta=25°C)**

Item	Symbol	Rating	Unit
Power Dissipation	$P_D$	80	mW
Forward Current	$I_F$	20	mA
Peak Forward Current (1/10 Duty Cycle, 0.1 ms Pulse Width)	$I_{FP}$	100	mA
Reverse Voltage	$V_R$	5	V
Operating Temperature	$T_{opr}$	-40~+85	°C
Storage Temperature	$T_{stg}$	-40~+85	°C

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

Item	Symbol	Test Conditions	Rating			Unit
			Min.	Typ.	Max.	
Forward Voltage	$V_F$	$I_F=20mA$	1.7	2.1	2.4	V
Reverse Current	$I_R$	$V_R=5V$	---	---	10	$\mu A$
Luminous Intensity	$I_v$	$I_F=20mA$	---	120	---	mcd
Dominant Wave Length	$\lambda_d$	$I_F=20mA$	---	644	---	nm
Viewing Angle $2\theta_{1/2}$	$2\theta_{1/2}$	$I_F=20mA$	30°			deg.

**Notes:-**

1)  $\theta_{1/2}$  is the off-axis angle where the luminous intensity is half the optical centerline value.

**Soldering Conditions** : Soldering Temp.  $\leq 260^\circ C$

Soldering Time  $\leq 5$  Sec.



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

A wrist band or an anti-electrostatic glove should be used when handling

Electrostatic Sensitive Devices.

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**PACKAGE DIMENSION**

Radiation Diagram Ta=25°C

RADIATION DIAGRAM

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

**Tolerance: ± 0.25(0.01)**  
**Unit: mm(inch)**

Part Number	Emitting Color	Lens Type
5R3HD-10-TB	RED	RED DIFFUSED

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**Typical Electrical/Optical Characteristics Curves**

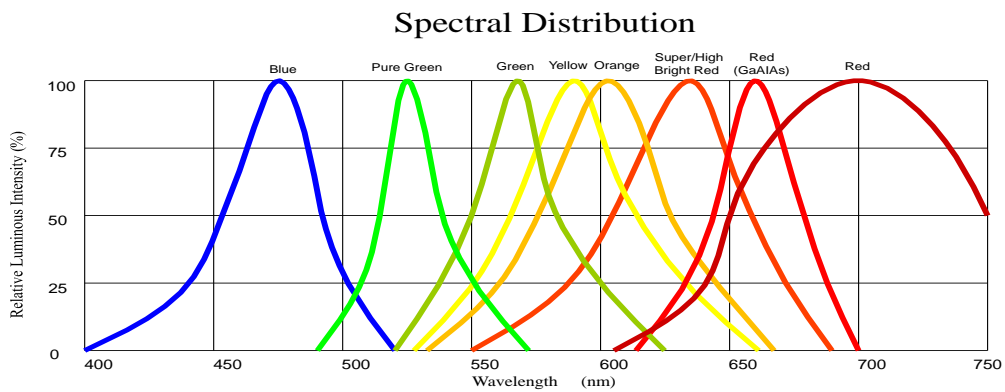


Fig1.Forward Current vs.Forward Voltage

Fig2.Relative Intensity vs. Forward Current

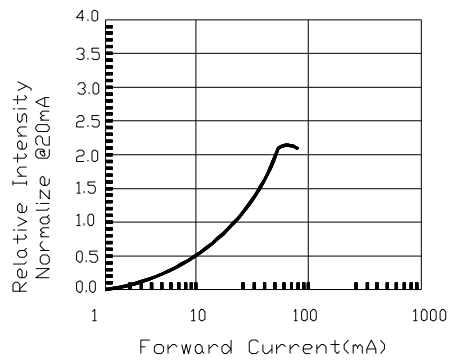
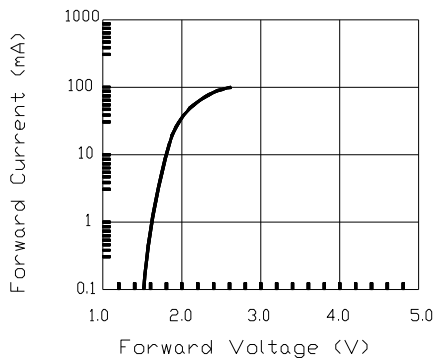
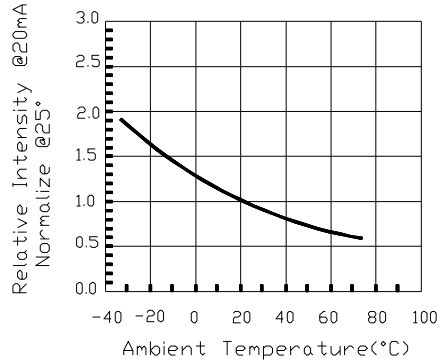
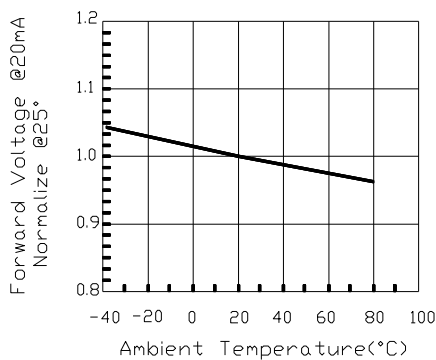


Fig3.Forward Voltage vs. Temperature

Fig4.Relative Intensity vs. Temperature





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LED lamp use explain

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