



科宏光电(深圳)有限公司  
KEHONG OPTO ELECTRONICS(SHENZHEN) CO., LTD.

# 承認書

## SPECIFICATION FOR APPROVAL

客戶

Cust. Name :

產品名稱

Description : LED 发光二极管

產品規格

Type : 2\*3\*4 墓碑形白光

產品型號

Product P/N : KH-F294WUC

編號

NO. W200909080

工廠地址：深圳寶安西鄉固戍村塘中工業區六廠

電話：0755-27491699 27490699 傳真：0755-27496639

http: [www.kehongled.com](http://www.kehongled.com) E-mail: [Kehongled@163.com](mailto:Kehongled@163.com)

1、 光電參數 Electrical Optical Characteristics (Ta = 25°C):

| Parameter<br>參數名稱                        | Symbol<br>符號   | Min<br>最小值 | Type<br>典型值 | Max<br>最大值 | Unt<br>單位 | Test Condition<br>測試條件 |
|--|----------------|------------|-------------|------------|-----------|------------------------|
| Luminous Intensity<br>發光強度               | IV             | 1000       |             | 3000       | mcd       | IF=20mA                |
| Temperature Color<br>色溫                  | $\lambda_p$    |            | 8000        |            | K         | IF=20mA                |
| Chromatic Coordinates<br>(X, Y)色坐标       | $\lambda_d$    | /          | /           | /          | /         | IF=20mA                |
| Viewing angle<br>視角                      | 2 $\theta$ 1/2 |            | 70          |            | deg       | IF=20mA                |
| Forward Voltage<br>正向電壓                  | Vf             | 3.0        |             | 3.6        | V         | IF=20mA                |
| Reverse Current<br>反向漏電流                 | IR             |            |             | 5          | uA        | VR=5V                  |
| Suggestion Forward Current<br>(建議)使用正向電流 | IF             | 3          | 5-10        | 20         | mA        | IF=20mA                |

2、 極限參數 Absolute Maximum Ratings (Ta=25°C):

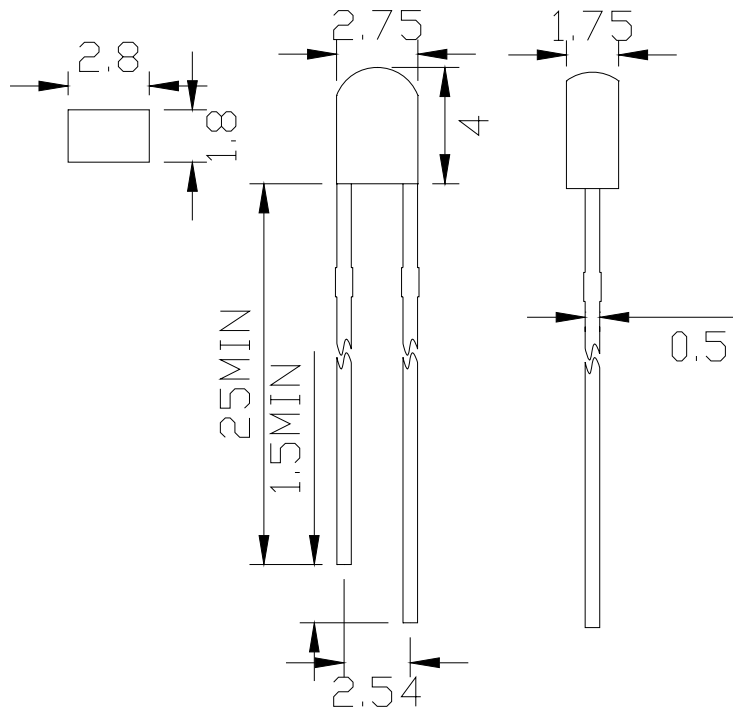
| Parameter<br>參數名稱  | 額定值(Rating)         | 單位(Unit) |
|--|---------------------|----------|
| Reverse Voltage<br>反向電壓                                  | 5                   | V        |
| Power Dissipation,Per Dice<br>耗散功率                       | 100                 | mW/chip  |
| Operating Temperature Ranger<br>工作溫度                     | -25~+85             | °C       |
| Storage Humidity<br>存貯濕度                                 | 45%~85%             | °F       |
| Storage Temperature Ranger<br>存貯溫度                       | -30~+85             | °C       |
| Soldering Temperature<br>焊接溫度                            | 260°C For 5 Seconds |          |
| Peak IF(ma) (1/10Duty Cycle 0.1ms Pulse Width)<br>瞬間脈衝電流 | 60                  | mA/chip  |
| Continuous Forward Current<br>正向電流                       | 30                  | mA/chip  |

3、 建議使用方式 Suggested Way OF Usage :

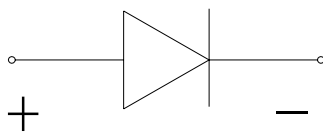
LED 應用電路建議採用限流方式，正向直流電流為 5-10mA,最大不超過 20mA。

When using LED, It's circuit adopts current limiting,With DC current about 5~10mA,Not more than 20mA at maximum

4、 外型尺寸(Package Dimension):



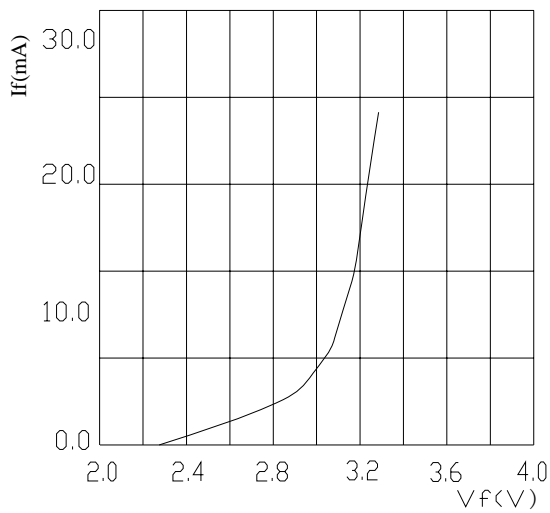
5、 電路原理圖(Internal Circuit Diagram):



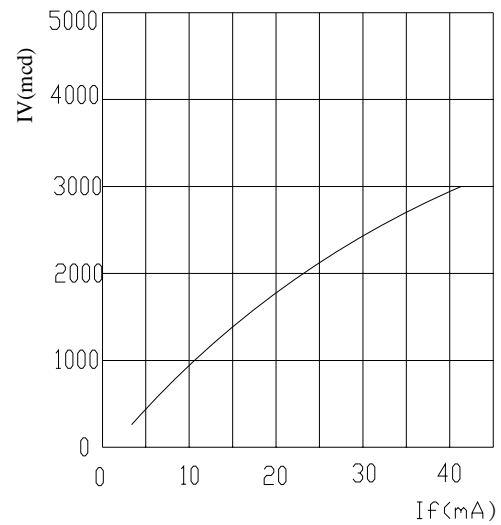
備註(Notes):

- a、全部單位為毫米 All dimensions are in millimeters(inches) ;
- b、未注公差為±0.15mm Tolerances are ±0.15mm unless otherwise noted .

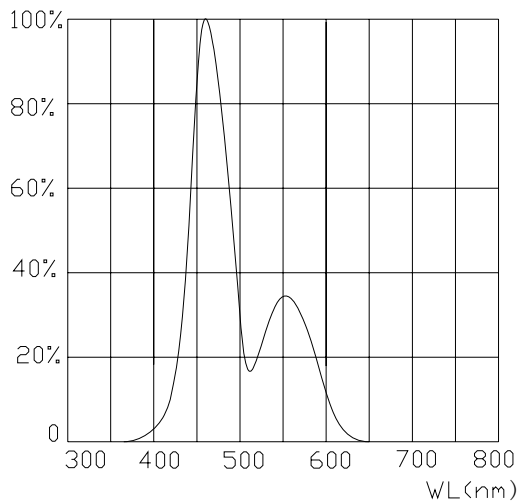
◆ Typical Electrical/Optical Characteristic Curves: (Ta=25°C Unless Otherwise Noted)



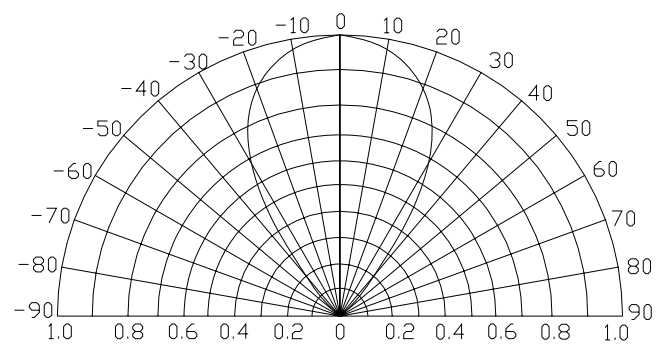
Forward Current Vs. Forward Voltage  
正向电流与正向电压关系曲线



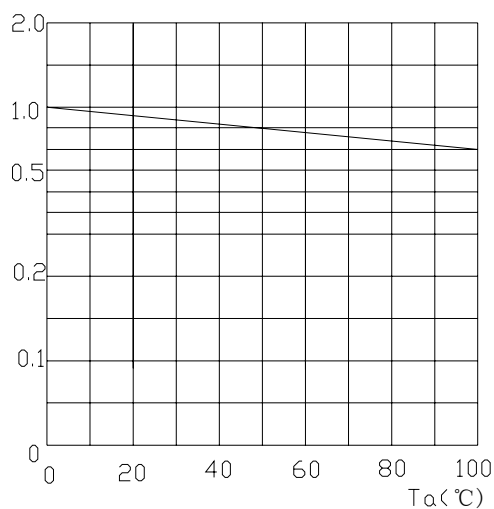
Relative Luminous Intensity vs. Forward Current  
相对光强与正向电流关系曲线



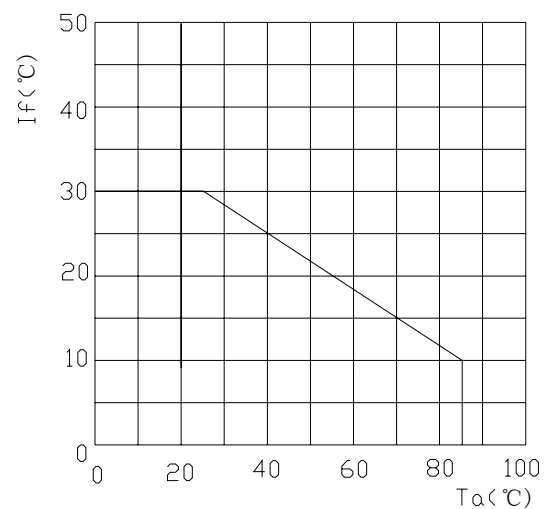
Relative Luminous Intensity vs. Wavelength  
发光强度与波长关系曲线



Relative Luminous Intensity vs. Radiation Angle  
相对光强与发光角度关系曲线



Relative Luminous Intensity vs. Ambient Temperature  
光强与环境温度关系曲线



Forward Current vs. Ambient Temperature  
正向电流与环境温度关系曲线