

**SPECIFICATION**

产品规格书

**CUSTOMER** : \_\_\_\_\_

(客户)

**PART NO.** : \_\_\_\_\_

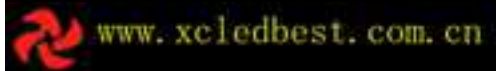
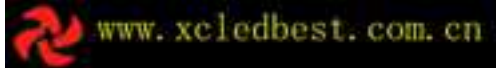
(产品型号)

**SPEC NO.** : \_\_\_\_\_

(规格书编号)

**DATE** : \_\_\_\_\_

(日期)



**FOR AFFIRM**

(供方确认)

| AFFIRM<br>(核准) | CHECKED<br>(审核) | PREPARED<br>(制定) |
|----------------|-----------------|------------------|
|                |                 | 刘小龙              |

**Light color : Red 、 Green 、 Blue**
**Absolute maximum rating ( Ta=25°C )**

- Operating/Storage temperature range : -30°C~ +85°C
- Derating linear from 25°C : 0.4 mA/°C
- Lead soldering temperature range : 260°C for 3 second
- Colloid Color:White Clear
- Life Test:20,000~50,000hours

**Electro-optical characteristics ( TA=25°C )**
**RED COLOR :**

| Parameter                | Symbol               | Min | Typ. | Max  | Unit | Test Condition               |
|--------------------------|----------------------|-----|------|------|------|------------------------------|
| Forward voltage          | <b>V<sub>F</sub></b> | ❖   | 2.00 | 2.25 | V    | <b>I<sub>F</sub> = 20 mA</b> |
| Luminous intensity       | <b>I<sub>v</sub></b> | ❖   | 1000 | 1200 | mcd  | <b>I<sub>F</sub> = 20 mA</b> |
| Peak emission wavelength | $\lambda_p$          | ❖   | 620  | 630  | nm   | ❖                            |
| Half intensity angle     | $\Delta\theta$       | ❖   | 25   | ❖    | deg  | ❖                            |

**GREEN COLOR :**

| Parameter                | Symbol               | Min | Typ. | Max  | Unit | Test Condition               |
|--------------------------|----------------------|-----|------|------|------|------------------------------|
| Forward voltage          | <b>V<sub>F</sub></b> | ❖   | 3.5  | 5    | V    | <b>I<sub>F</sub> = 20 mA</b> |
| Luminous intensity       | <b>I<sub>v</sub></b> | ❖   | 1500 | 2000 | mcd  | <b>I<sub>F</sub> = 20 mA</b> |
| Peak emission wavelength | $\lambda_p$          | ❖   | 515  | 525  | nm   | ❖                            |
| Half intensity angle     | $\Delta\theta$       | ❖   | 25   | ❖    | deg  | ❖                            |

**BLUE COLOR :**

| Parameter                | Symbol               | Min | Typ. | Max  | Unit | Test Condition               |
|--------------------------|----------------------|-----|------|------|------|------------------------------|
| Forward voltage          | <b>V<sub>F</sub></b> | ❖   | 3.5  | 5    | V    | <b>I<sub>F</sub> = 20 mA</b> |
| Luminous intensity       | <b>I<sub>v</sub></b> | ❖   | 1200 | 1500 | mcd  | <b>I<sub>F</sub> = 20 mA</b> |
| Peak emission wavelength | $\lambda_p$          | ❖   | 460  | 470  | nm   | ❖                            |
| Half intensity angle     | $\Delta\theta$       | ❖   | 25   | ❖    | deg  | ❖                            |

**Direct Current Characteristics**

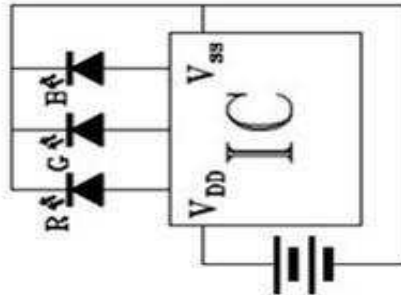
| Parameter         | Symbol                 | Min | Typ. | Max | Unit | Remarks                |
|-------------------|------------------------|-----|------|-----|------|------------------------|
| Operating voltage | <b>V<sub>DD</sub></b>  | 2.0 | 4.5  | 5.0 | V    | ❖                      |
| Driver Current    | <b>I<sub>ol</sub></b>  | ❖   | 50   | ❖   | mA   | @V <sub>DS</sub> =1.2V |
| Power Consumption | <b>P<sub>o</sub></b>   | ❖   | 225  | ❖   | mW   | V <sub>DD</sub> =4.5V  |
| Flash Frequency   | <b>F<sub>tet</sub></b> | ❖   | 0.2  | ❖   | Hz   | External ± 30%         |

\*All specs and applications shown above subject to change without prior notice.

(以上电路及规格仅供参考，本公司可进行修正)

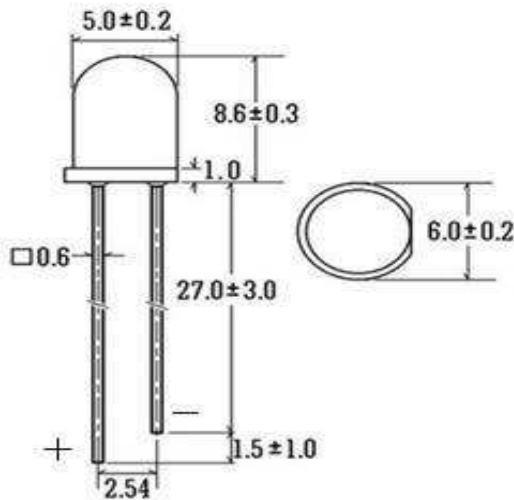
### Application diagram and Dimensions

Application Diagram

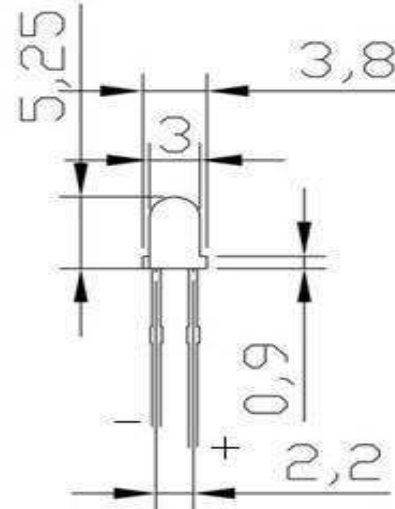


NOTE:  
Unit:mm

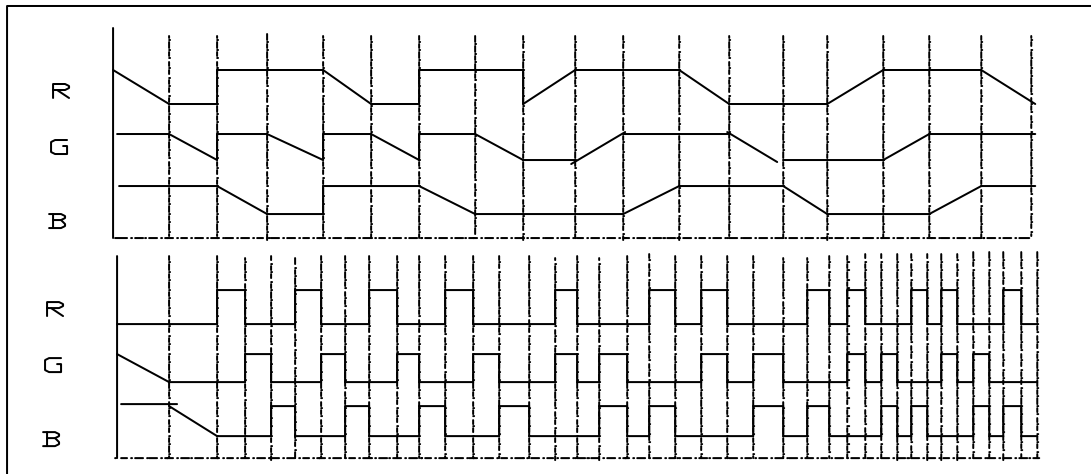
Dimensions:5mm



Dimensions:3mm



### Output Sketch Map



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