

Φ3MM BLUE ROUND LED

A-304H1B26W

Features

- Round type
- Blue emitting color
- Low current operation
- Lead free, RoHS compliant

Applications

- Indicator
- TV set
- Auto
- Monitor

Ordering Information

| Part Number | Emission Color | Lens Color | Bin Code | Luminous Intensity IV (mcd) (IF=20mA) | | |
|-------------|----------------|---------------|----------|--|------|------|
| | | | | Min. | Typ. | Max. |
| A-304H1B26W | Blue | Blue Diffused | - | 100 | 283 | 465 |

Maximum Ratings

| Parameter | Symbol | Value | Unit |
|--|------------------|----------|------------|
| Operating temperature | T _{OP} | -35 ~ 85 | ℃ |
| Storage temperature | T _{STG} | -35 ~ 85 | ℃ |
| Forward current (T _A =25 ℃) | I _F | 30 | mA per seg |
| Peak forward current (T _A =25 ℃) * ¹ | I _{PF} | 120 | mA per seg |
| Reverse voltage (T _A =25 ℃) | V _R | 5 | V per seg |
| Power consumption (T _A =25 ℃) | P | 80 | mW per seg |

*1 at 1/10 Duty Cycle

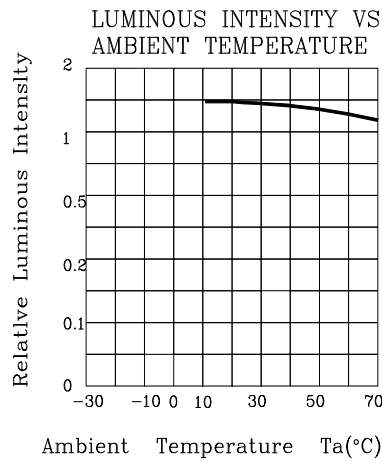
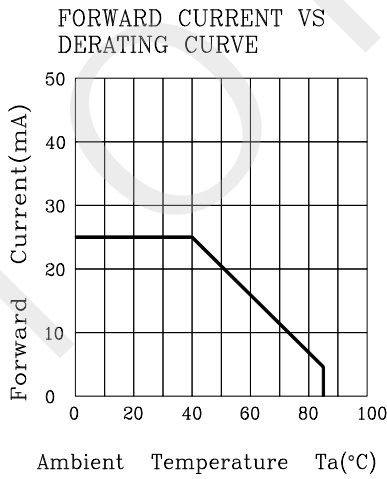
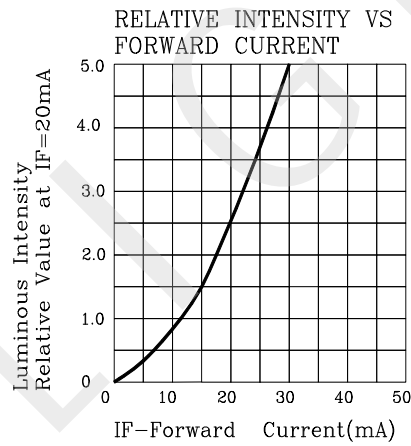
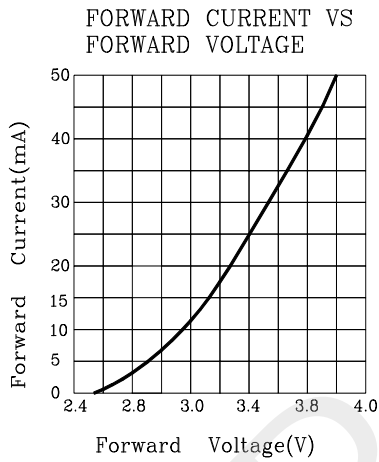
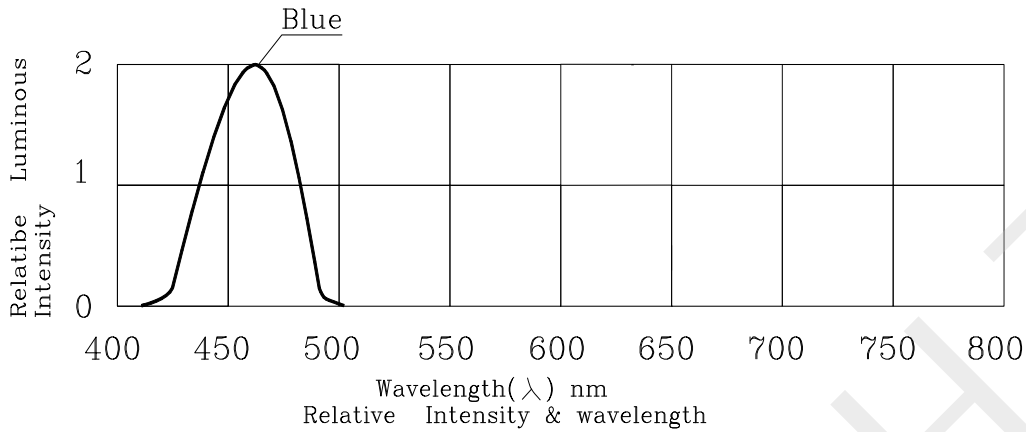
Electrical / Optical Characteristics (1)(T_A = 25 ℃)

| Parameter | | Symbol | Value | Unit |
|---|--------|-------------------|-------|--------|
| Wavelength at peak emission | (Typ.) | λ _P | 460 | nm |
| Dominant wavelength IF = 20mA | (Typ.) | λ _D | - | nm |
| Spectral bandwidth at 50% IF = 20mA | (Typ.) | Δλ | 30 | nm |
| Viewing angle at 50% IF = 20mA | (Typ.) | 2θ _{1/2} | 72 | degree |
| Forward voltage IF = 20mA | (Min.) | V _F | 2.8 | V |
| | (Typ.) | V _F | 3.1 | V |
| | (Max.) | V _F | 3.8 | V |
| Reverse current V _R = 5V | (Max.) | I _R | 10 | μA |
| Optical efficiency IF = 20mA | (Typ.) | η _{OPT} | - | lm/W |

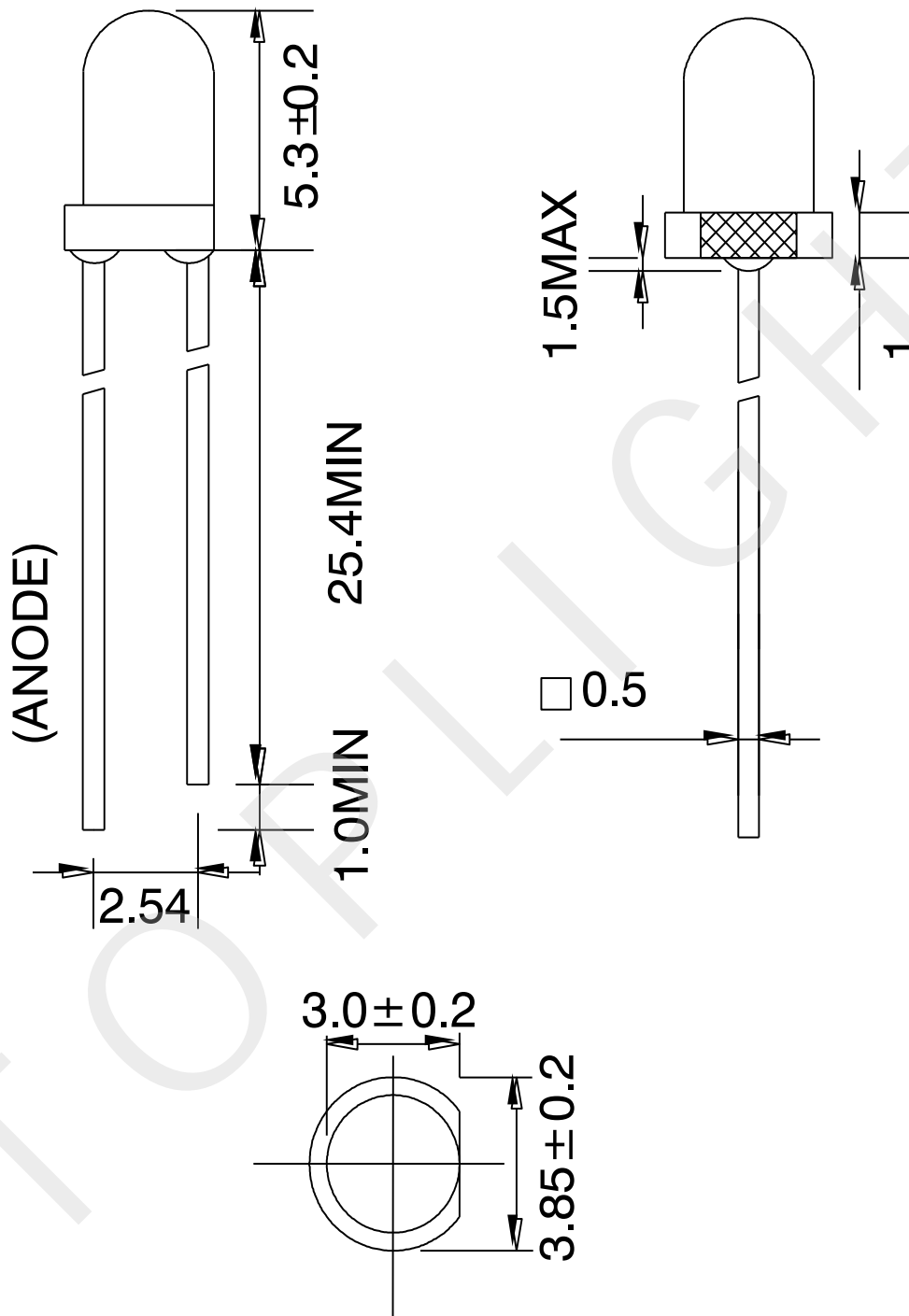
Luminous Intensity Bin Groups(T_A = 25 ℃ & I_F = 20 mA)

| Bin Code | Luminous Intensity I _v (mcd) | | |
|----------|---|------|------|
| | Min. | Typ. | Max. |
| - | 100 | 283 | 465 |

Electrical/Optical Charateristic (2)



Package Outline Dimensions



Notes:

1. All dimensions are in millimeters. Tolerance is ± 0.25 unless otherwise noted.
2. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

Display Soldering Conditions

The recommended conditions for soldering are as follows. Because the component is made with epoxy resin, the units are susceptible to heat. Therefore, the preheating and soldering temperatures should be kept as low as possible to avoid damage.

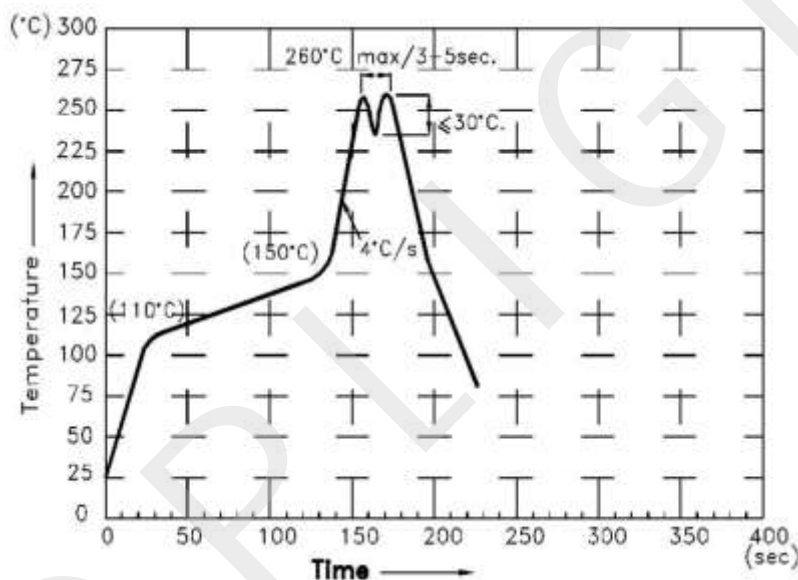
1 . Manual Soldering Conditions(with 1.5mm Iron tip)

Iron Tip Temperature: 350 °C Max, Time: 3s Max

Position: The iron should be situated at least 2mm away from the root of the leads.

2 . Through the Wave Soldering Conditions

Wave Soldering Profile For Lead-free Through-hole LED



3 . Soldering General Notes:

- Toplight recommend manual soldering to be used only for repair and rework purposes. The soldering iron should not exceed 30W in power. The tip of the soldering iron should not touch the reflector case to avoid heat-damage.
- Maintain the pre-heat and peak temperatures with dip units as low as possible and the times as short as is feasible, since the products are susceptible to heat during flow soldering.
- After soldering, allow at least three minutes for the component to cool to room temperature before further operations.
- If components will undergo multiple soldering processes, or other processes where the components may be subjected to intense heat, please check with Toplight for compatibility.

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