

# TOL-50bOBbWGa

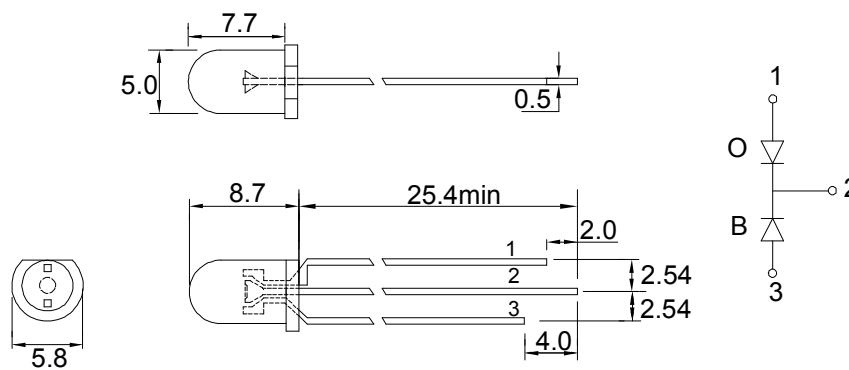
## Lamp LED

| Part Number   | Chip          |               | Lens Color     |
|---------------|---------------|---------------|----------------|
|               | Material      | Source Color  |                |
| TOL-50bOBbWGa | AlGaInP/InGaN | Orange / Blue | White Diffused |

### Features

- I.C. compatible.
- Low power consumption.
- Compatible with wave soldering process.
- 5.0mm diameter package.
- Orange/Blue opposite polarity.
- Long life, stable reliable.
- RoHS complian

### Dimensions



#### Notes:

1. All dimensions are in millimeter.
2. Tolerance is  $\pm 0.25$ mm unless otherwise noted.

### Absolute Maximum Rating @ Ta=25°C

| Parameter  | Maximum Rating  | Unit |
|--|-----------------|------|
| Peak Forward Current<br>(1/10 Duty Cycle, 0.1ms Pulse Width) | 100             | mA   |
| Power Dissipation (Tamb ≤ 60°C)                              | 105             | mW   |
| Continuous Forward Current                                   | 20              | mA   |
| Operating Temperature Range                                  | -40°C to +80°C  |      |
| Storage Temperature Range                                    | -40°C to +100°C |      |
| Wave Soldering Profile For Lead-free Soldering               | 260°C for 5 Sec |      |

### Electrical / Optical Characteristic @ Ta=25°C

| Parameter                | Symbol            | Orange |      |      | Blue |      |      | Unit | Test Condition       |
|--------------------------|-------------------|--------|------|------|------|------|------|------|----------------------|
|                          |                   | Min.   | Typ. | Max. | Min. | Typ. | Max. |      |                      |
| Luminous Intensity       | Iv                |        | 135  |      |      | 180  |      | mcd  | I <sub>F</sub> =20mA |
| Viewing Angle            | 2θ <sub>1/2</sub> |        | 100  |      |      | 100  |      | deg  | I <sub>F</sub> =20mA |
| Dominant Wavelength      | λ <sub>d</sub>    |        | 605  |      |      | 470  |      | nm   | I <sub>F</sub> =20mA |
| Spectral Line Half-Width | Δλ                |        | 15   |      |      | 35   |      | nm   | I <sub>F</sub> =20mA |
| Forward Voltage          | V <sub>F</sub>    |        | 2.0  |      |      | 3.0  |      | V    | I <sub>F</sub> =20mA |
| Reverse Current          | I <sub>R</sub>    |        |      | 10   |      |      | 10   | μA   | V <sub>R</sub> =5V   |