

PRODUCT SPECIFICATION



Part No.: WL-P100EP4545UV140-365

High Power LED

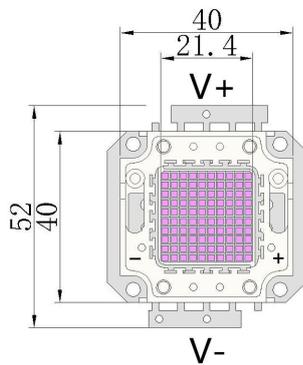
Catalog

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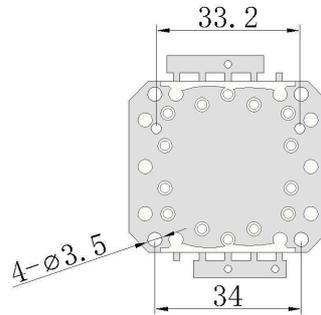
1.Product Features

- High Brightness Violet LED
- Plane Package
- Viewing Angle 140 Degree
- Chip Material: AlGaInP
- RoHS Compliant

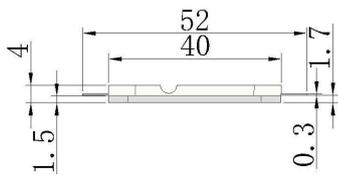
2.Dimensions



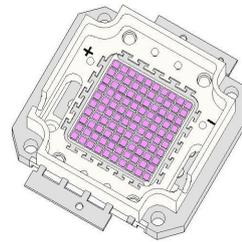
Top view



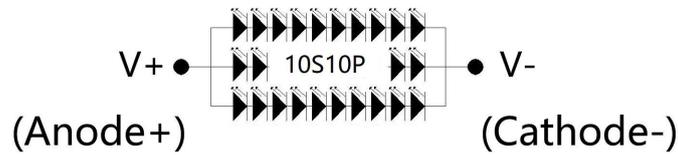
Bottom view



Side view



Perspective view



Circuit diagram

Notes:

1. All dimensions are in millimeters.
2. Tolerance is $\pm 0.1\text{mm}$ unless otherwise noted.

3. Absolute Maximum Rating @ Ta=25° C

| Parameter | Symbol | Maximum Rating | Unit |
|---|--------|-----------------|------|
| Continuous Forward Current | IF | 3500 | mA |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) | IFp | 3700 | mA |
| Reverse Voltage | VR | 37 | V |
| Power Dissipation | PD | 100 | W |
| Electrostatic Discharge | ESD | 1000 | V |
| Operating Temperature Range | TOPR | -25°C to +80°C | |
| Storage Temperature Range | TSTG | -35°C to +100°C | |
| Soldering iron welding temperature (reflow welding is not allowed) | TSOL | 350°C | |

4. Optical Character @ Ta=25° C

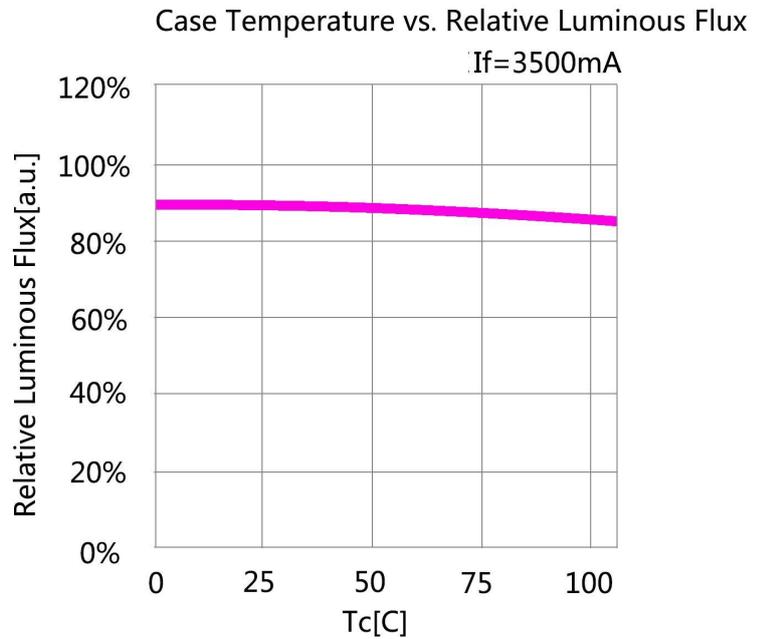
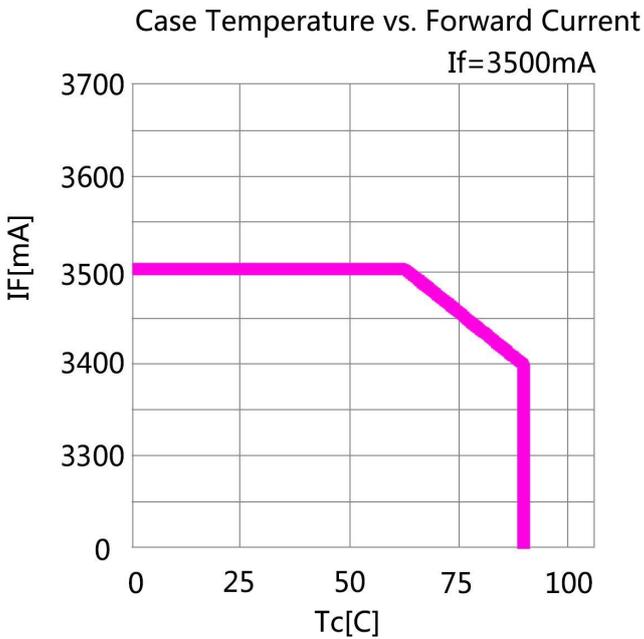
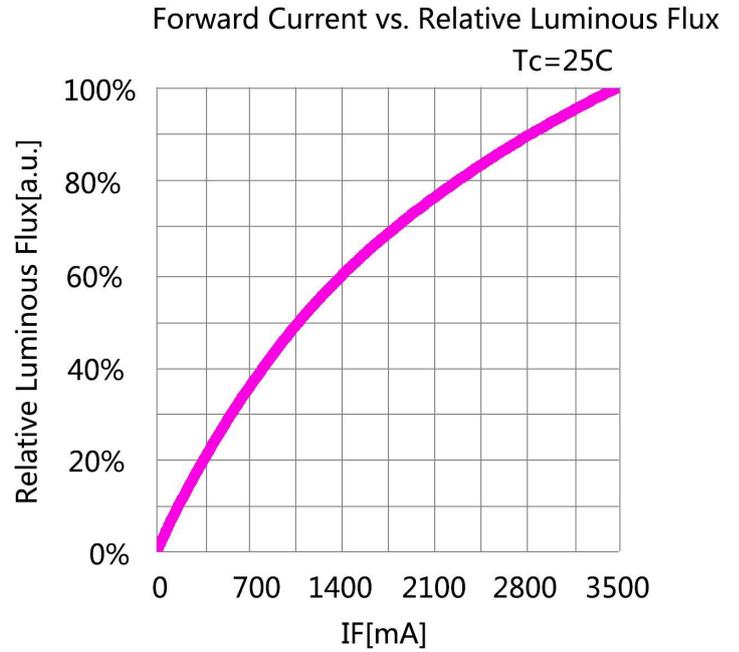
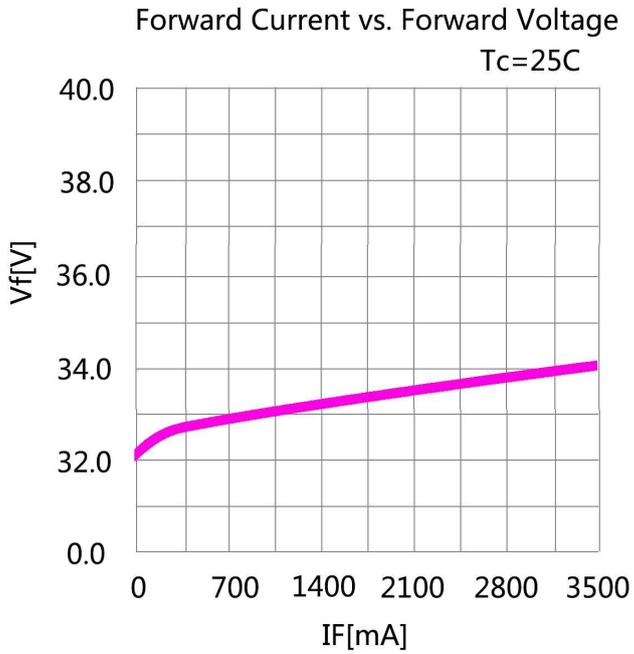
| Parameter | Symbol | Color | Min. | Typ. | Max. | Unit | Test Condition |
|---------------------------|---------|-------|-------|-------|-------|------|----------------|
| Forward Voltage | VF | V | 33 | 34 | 35 | V | IF=3500mA |
| Radiant Power | Po | V | 50000 | | 60000 | mW | IF=3500mA |
| Peak Wavelength | WP | V | 365 | 367.5 | 370 | nm | IF=3500mA |
| Reverse Current | IR | | 0 | | 10 | μA | VR=37V |
| Viewing Angle | 2θ1/2 | | | | 140 | deg | IF=3500mA |
| Recommend Forward Current | IF(rec) | V | | | 3500 | mA | |

Notes:

Measurement tolerance of forward voltage ±0.1V

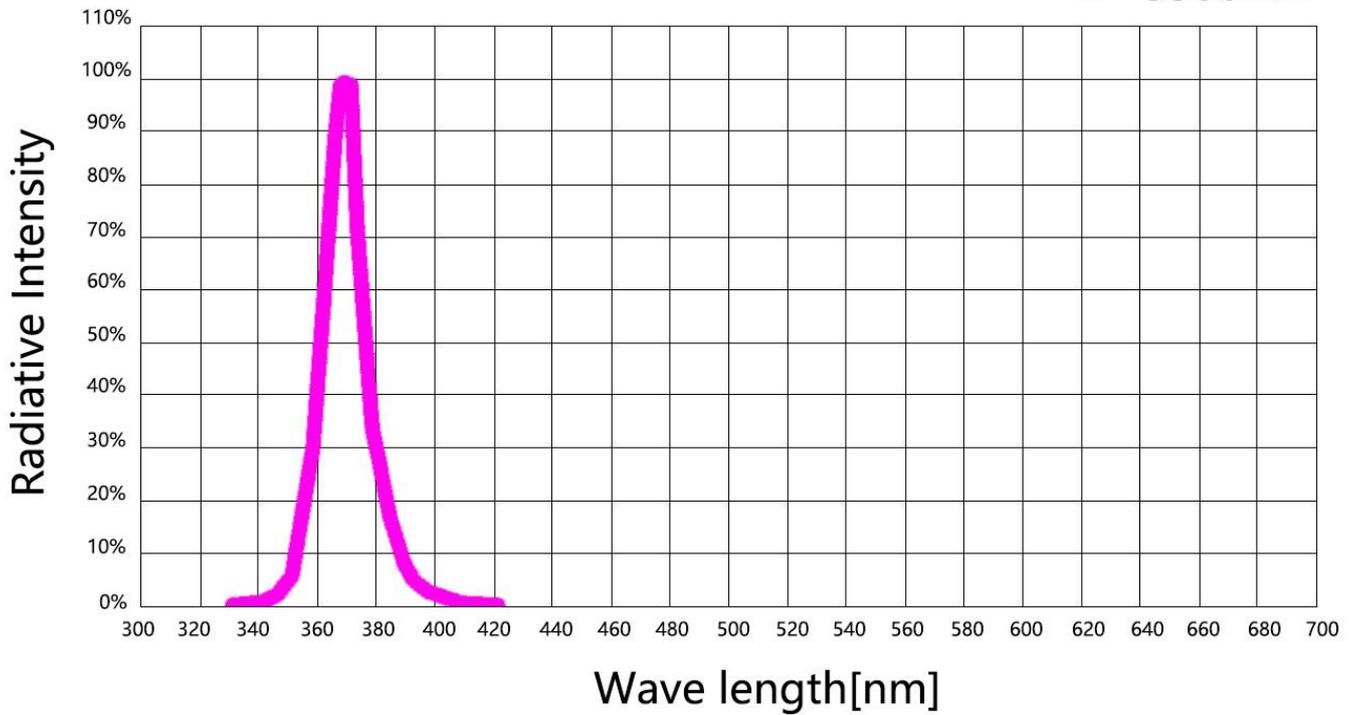
5. Optical Character Curves

(25 ° Ambient Temperature Unless Otherwise Noted)



6. Spectrum Curves

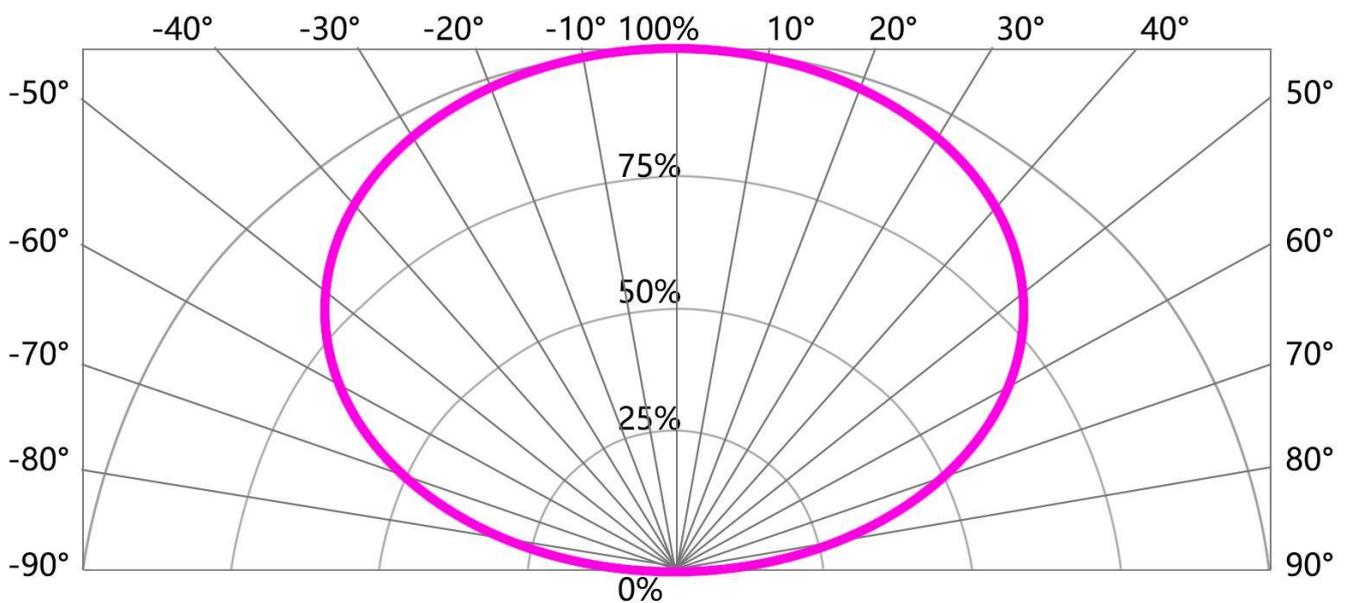
IF=3500mA



7. Viewing Angle Curves

Radiation Characteristic

IF=3500mA



8.Cautions

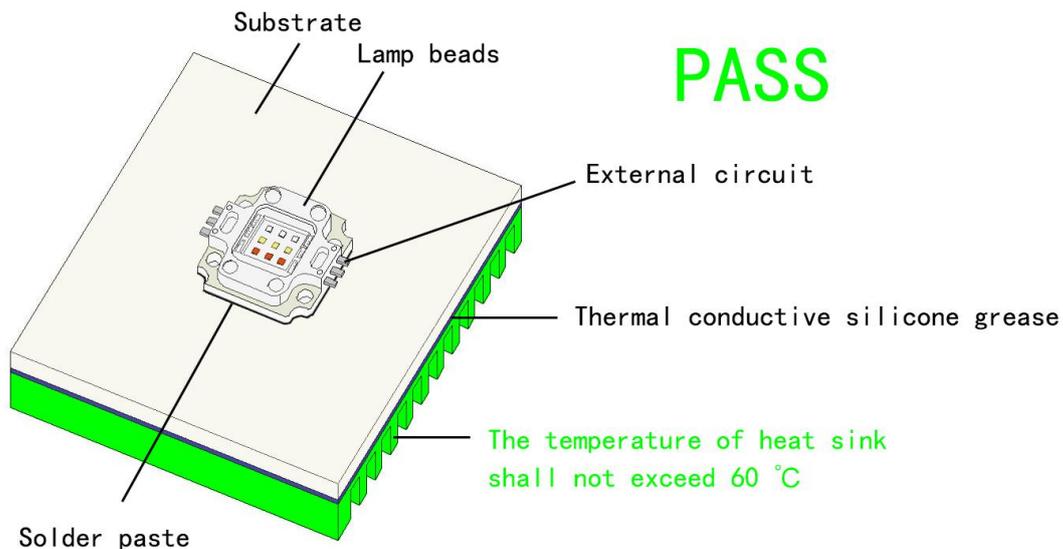
1. Electrostatic Treatment

Do a full range of anti-static measures (such as: anti-static ring, anti-static clothes, machine, equipment grounding wire, etc.)



2. Heat Dissipation

- A、 It is recommended to configure reasonable heat dissipation device for the product.
- B、 The best working temperature range of the product is 40-60°. It is recommended to control the working temperature of the product within a reasonable range.



PASS

OK

