

ARL-5923UBC-3.5cd-E

FEATURES

High efficiency

Selected minimum intensities

• Low Power consumption

Available on tape and reel

General purpose leads

• Pb free

DESCRIPTIONS

• The series is specially designed for applications requiring higher brightness

• The LED lamps are available with different colors, intensities, epoxy colors, etc

• Superior performance in outdoor environment

APPLICATIONS

Status indicators.

Commercial use.

Advertising Signs

Back lighting

USAGE NOTES

• The ultra bright LED is an electrostatic insensitive device, so static electricity and surge will damage the LED. It is required to wear a wrist-band when handling the LED. All device, equipment, machinery, desk and ground must be properly grounded

• When using LED, it must use a protective resistor in series with DC current about 20mA

Device Selection Guide

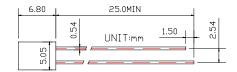
| LED Part No. | | Lens Color | |
|---------------------|----------|---------------|-------------|
| | Material | Emitted Color | Lens Color |
| ARL-5923UBC-3.5cd-E | InGaN | Blue | Water clear |

PACKAGE DIMENSIONS

NOTES

- Other dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Protruded resin under flange is 1.5mm Max LED.
- Bare copper alloy is exposed at tie-bar portion after cutting.





Absolute Maximum Rating (Ta=25°C)

| Parameter | Symbol | Absolute Maximum Rating | Unit |
|-----------------------|---------------------|-------------------------|------|
| Forward Pulse Current | I _{FPM} 70 | | mA |
| Forward Current | I _{FM} | 30 | mA |
| Reverse Voltage | V_R | 5 | ٧ |
| Power Dissipation | P_{D} | 140 | mW |
| Operating Temperature | Topr | -40 ~+80 | °C |
| Storage Temperature | Tstg | -40 ~+100 | °C |
| Soldering Heat (5s) | Tsol | 260 | °C |

Electro-Optical Characteristics (Ta=25 °C)

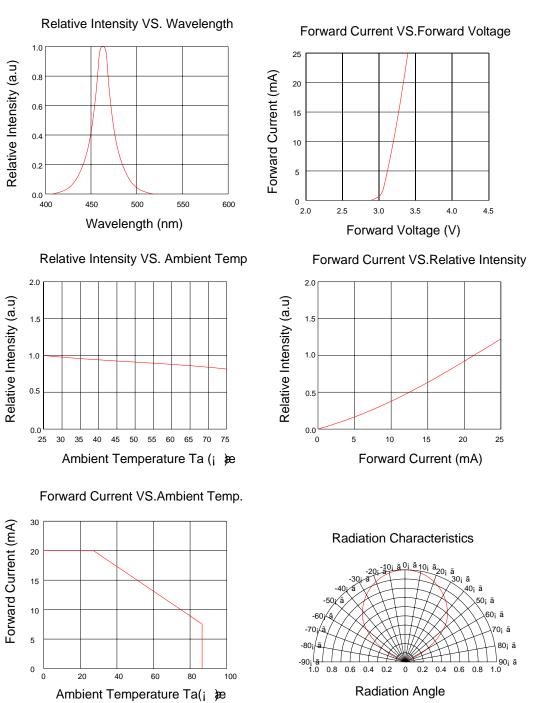
| Parameter | Symbol | Min. | Тур. | Max. | Unit | Test Condition |
|--------------------------|-------------------|------|------|------|------|----------------|
| Luminous Intensity | lv | 2000 | 3000 | 3600 | mcd | IF=20mA(Note1) |
| Viewing Angle | 2θ _{1/2} | | 100 | | Deg | (Note 2) |
| Peak Emission Wavelength | λр | 460 | 465 | 470 | nm | IF=20mA |
| Spectral Line Half-Width | Δλ | 25 | 30 | 35 | nm | IF=20mA |
| Forward Voltage | V _F | 2.9 | | 3.5 | V | IF=20mA |
| Reverse Current | I _R | | | 10 | μΑ | VR=5V |



Note:

- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- θ1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES



Note:

- Above specification may be changed without notice. Factory will reserve authority on material change for above specification.
- When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these
 specification sheets. Factory assumes no responsibility for any damage resulting from use of the product which does not comply
 with the absolute maximum ratings and the instructions included in these specification sheets.
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