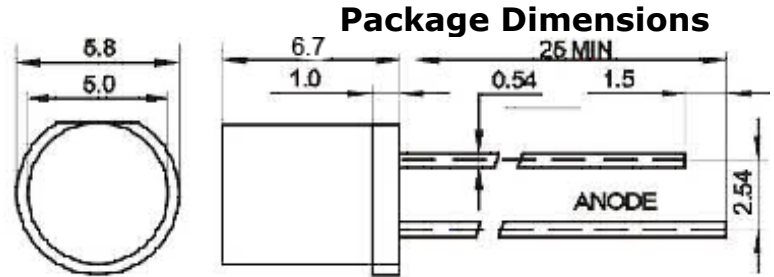




ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

ARL-5923UBC-1,2cd



UNIT:mm

- Notes:** 1. Other dimensions are in millimeters, tolerance is 0.25mm except being specified.
2. Protruded resin under flange is 1.5mm Max LED.
3. Bare copper alloy is exposed at tie-bar portion after cutting

Features

- High efficiency
- Low Power consumption
- General purpose leads
- Selected minimum intensities
- Available on tape and reel
- Pb free

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

Description

- 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

Device Selection Guide

Part No.	Chip		Lens Color
	Material	Emitted Color	
ARL-5923UBC-1,2cd	InGaN	Blue	White Diffused

Absolute Maximum Rating ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Absolute Maximum Rating	Units
Peak Forward Current (Duty /10 @ 1KHZ)	I_{FPM}	50	mA
Forward Current	I_{FM}	25	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	150	mW
Operating Temperature	T_{opr}	-40 ~ +80	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 ~ +100	$^\circ\text{C}$
Soldering Temperature	T_{sol}	260	$^\circ\text{C}$

Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min	Typ.	Max.	Units	Test Conditions
Luminous Intensity	I_v	800	---	1200	mcd	IF=20mA (Note 1)
Viewing Angle	$2\theta_{1/2}$	80	---	100	Deg	(Note 2)
Peak Emission Wavelength	λ_p	460	465	470	nm	IF=20mA
Spectral Line Half-Width	λ	25	30	35	nm	IF=20mA
Forward Voltage	V_F	2.9	---	3.5	V	IF=20mA
Reverse Current	I_R	---	---	10	μA	VR=5V

- Notes:** 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

Typical Electro-Optical Characteristics Curves

