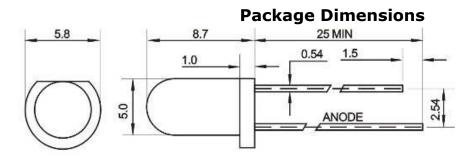




ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

ARL-5013UBW-B



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

- · Electricity control IC embedded
- Fancy, fun, hottest in the market.
- Lens size with 5mm / 8mm / 10mm options
- Viewing Angles 30°
- Operating voltage range: 3V-5V DC
- Blinking frequency : 1.8HzFrequency tolerance : ±20%
- RoHS compliant

Description

- New trend creations
- Low energy consumptions
- · Low maintenance costs
- High application design flexibility
- High reliability

Device Selection Guide

Part No.	Chi	Lens Color	
	Material	Emitted Color	Lens Color
ARL-5013UBW-B	InGaN	Blue	White Diffused

Absolute Maximum Rating (T₃=25°C)

Parameter	Symbol	Absolute Maximum Rating	Units mA	
Peak Forward Current (Duty /10 @ 1KHZ)	I _{FPM}	100		
Forward Current	\mathbf{I}_{FM}	30	mA	
Reverse Voltage	V _R	5	V	
Power Dissipation	P _D	100	mW	
Operating Temperature	Topr	-40 ~ +80	°C	
Storage Temperature	Tstg	-40 ~ +100	°C	
Soldering Temperature	Tsol	260	°C	

Applications

- Toys / sports utilities
- Miniature key chains
- · Effect Lights.
- Display / decoration lights .
- Electronic displays and signals
- Interior decoration lights.
- Indicator lights.
- Solar energy lights / garden lights



Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min	Тур.	Max.	Units	Test Conditions
Luminous Intensity	Iv	600		800	mcd	IF=20mA (Note 1)
Viewing Angle	2θ1/2		30		Deg	(Note 2)
Peak Emission Wavelength	λр	460	465	470	nm	IF=20mA
Spectral Line Half-Width	λ	15	20	25	nm	IF=20mA
Turn on time	Duty		1/20		ms	IF=20mA
Blinking Frequency	Fled		1.8		Hz	IF=20mA
Forward Voltage	V _F	3.0		5.0	V	IF=20mA
Reverse Current	I _R			10	μΑ	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.