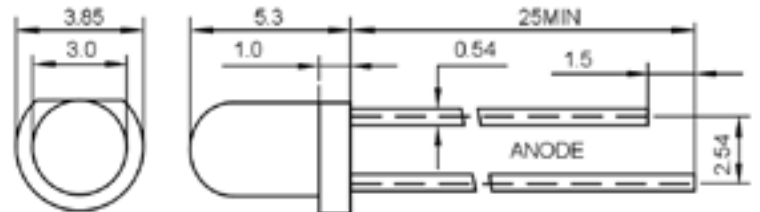




ARL-3014WW-B

Package Dimensions



UNIT:mm

Features

- Electricity control IC embedded
- Fancy, fun, hottest in the market.
- Lens size with 5mm / 8mm / 10mm options
- Viewing Angles 60°.
- Operating voltage range : 3V-5V DC.
- Blinking frequency : 1.8Hz
- Frequency tolerance : ±20%
- RoHS compliant

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

Usage Notes

Surge will damage the LED
 When using LED, it must use a protective resistor in series with DC current about 20mA

Description

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

Device Selection Guide

Part No.	Chip		Lens Color
	Material	Emitted Color	
ARL-3014WW-B	InGaN	White	White diffused

Absolute Maximum Rating (T_a = 25°C)

Parameter	Symbol	Absolute Maximum Rating	Units
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	I _{FPM}	100	mA
Forward Current	I _{FM}	30	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	140	mW
Operating Temperature	Topr	-40 ~ +80	°C
Storage Temperature	Tstg	-40 ~ +100	°C
Soldering Temperature	Tsol	260	°C

Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min	Typ.	Max.	Units	Test Conditions
Luminous Intensity	I _v	1500	1800	2200	mcd	IF=20mA (Note 1)
Viewing Angle	2θ _{1/2}	---	60	---	Deg	(Note 2)
Peak Emission Wavelength	λ _p	X=0.32 Y=0.33	CRI: 6000-7000K		nm	IF=20mA
Spectral Line Half-Width	Δλ	15	20	25	nm	IF=20mA
Turn on time	Duty		1/20		ms	IF=20mA
Blinking Frequency	Fled	1.5	1.8	2.4	Hz	IF=20mA
Forward Voltage	V _F	3.0	---	5.0	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. θ_{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.