

Package Dimensions



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

ARL-3014URD-B

3.85 3.0 1.0 25MIN 0.54 1.5 ANODE

UNIT:mm

Features

- Electricity control IC embedded
- Fancy, fun, hottest in the market.
- Viewing Angles: 60°.
- Operating voltage range: 3V-5V DC.
- Blinking frequency: 1.8HzFrequency tolerance: ±20%
- RoHS compliant

Usage Notes

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

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

Description

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

Device Selection Guide

Part No.	Chi	Lana Color	
	Material	Emitted Color	Lens Color
ARL-3014URD-B	AlGaInP	Red	Red 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	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	

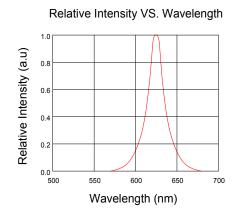


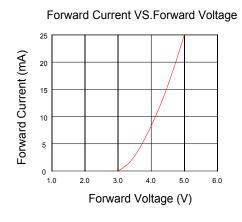
Electrical / Optical Characteristics at TA=25°C

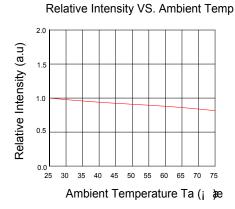
Parameter	Symbol	Min	Тур.	Max.	Units	Test Conditions
Luminous Intensity	Iv	100		200	mcd	IF=20mA (Note 1)
Viewing Angle	2θ1/2		60		Deg	(Note 2)
Peak Emission Wavelength	λр	620	630	635	nm	IF=20mA
Spectral Line Half-Width	λ	15	20	25	nm	IF=20mA
Turn on time	Duty		1/20		ms	IF=20mA
Blinking Frequency	Fled	1.8		2.4	Hz	IF=20mA
Forward Voltage	V _F	3.0		5.0	V	IF=20mA
Reverse Current	I_R			10	μΑ	VR=5V

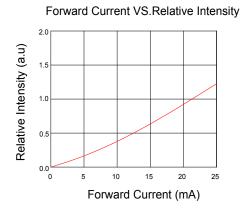
Notes: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

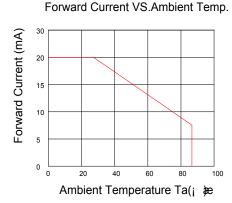
Typical Electro-Optical Characteristics Curves

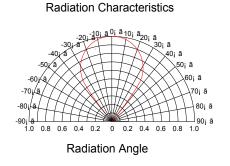












^{2.} $\theta_{_{1/2}}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.