ВЫВОДНОЙ СВЕТОДИОД КРУГЛЫЙ

ARL-3014UGD-B

3 mm

DIFFUSED

GREEN

FEATURES

- Electricity control IC embedded.
- Fancy, fun, hottest in the market.
- Lens size with 3/5 mm options.
- Viewing angle: 40°.
- Operating voltage range: DC 3–5 V.
- Blinking frequency: 1.5 Hz.
- Frequency tolerance: ±20%.
- RoHS compliant.

DESCRIPTIONS

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

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.

DEVICE SELECTION GUIDE

LED Part No.	CHIP		Lens Color
	Material	Emitted Color	
ARL-3014UGD-B	**InGaN**	**Green**	**Diffused**

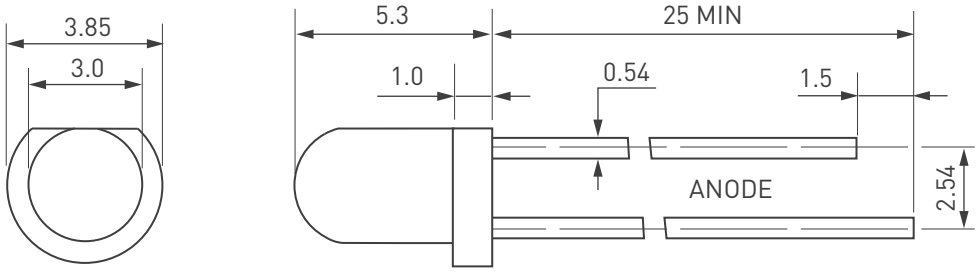
USAGE NOTES:

Surge will damage the LED.

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

ATTENTION!
ELECTROSTATIC SENSITIVE DEVICES.
OBSERVE PRECAUTIONS FOR HANDLING.

PACKAGE DIMENSIONS



Unit: mm.

ABSOLUTE MAXIMUM RATING (T_A = +25 °C)

Parameter	Symbol	Absolute Maximum Rating	Unit
Peak Forward Current	**I_{FPM}**	**70**	**mA**
Forward Current	**I_{FM}**	**30**	**mA**
Reverse Voltage	**V_R**	**5**	**V**
Power Dissipation	**P_D**	**100**	**mW**
Operating Temperature	**T_{opr}**	**–40... +80**	**°C**
Storage Temperature	**T_{stg}**	**–40... +100**	**°C**
Soldering Heat (5s)	**T_{sol}**	**260**	**°C**

ELECTRO-OPTICAL CHARACTERISTICS (T_A = +25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	**I_V**	**2000**	**—**	**3000**	**mcd**	**If=20mA (Note 1)**
Viewing Angle	**$2\theta_{1/2}$**	**—**	**40**	**—**	**Deg**	**Note 2**
Peak Emission Wavelength	**λ_P**	**520**	**525**	**530**	**nm**	**If=20mA**
Spectral Line Half-Width	**$\Delta\lambda$**	**15**	**20**	**25**	**nm**	**If=20mA**
Turn on Time	**Duty**	**—**	**1/20**	**—**	**ms**	**If=20mA**
Blinking Frequency	**Fled**	**—**	**1.5**	**—**	**Hz**	**If=20mA**
Forward Voltage	**V_F**	**3.0**	**—**	**5.0**	**V**	**If=20mA**
Reverse Current	**I_R**	**—**	**—**	**10**	**μA**	**VR=5V**

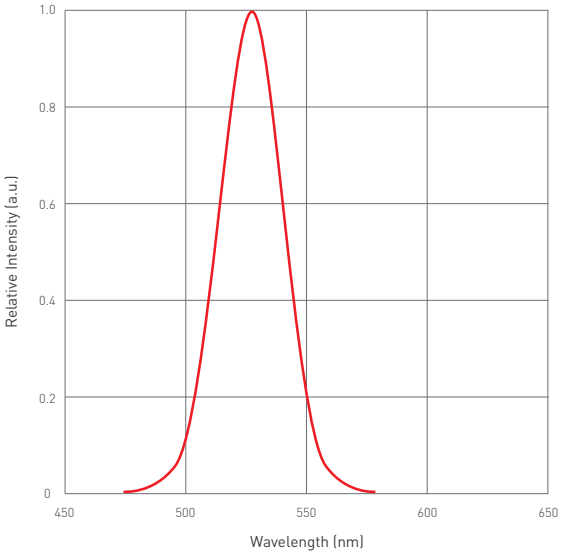
Note:

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

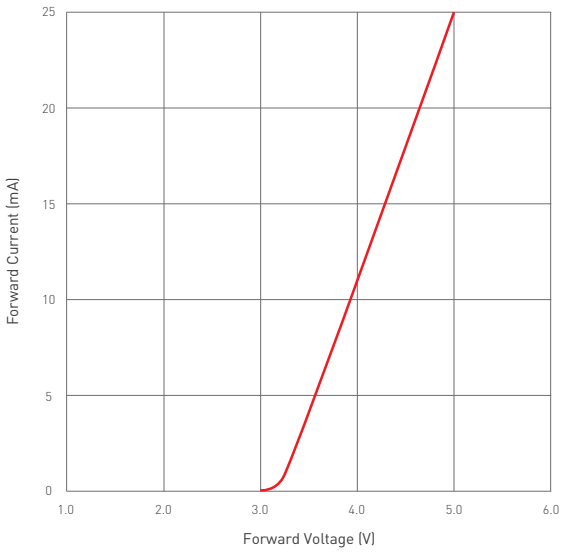
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

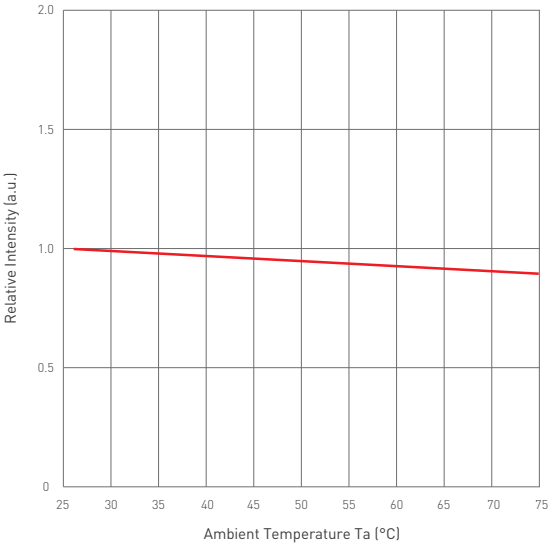
Relative Intensity VS Wavelength



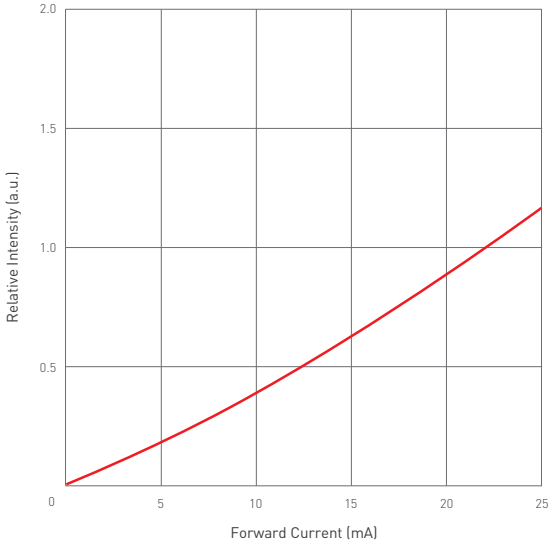
Forward Current VS Forward Voltage



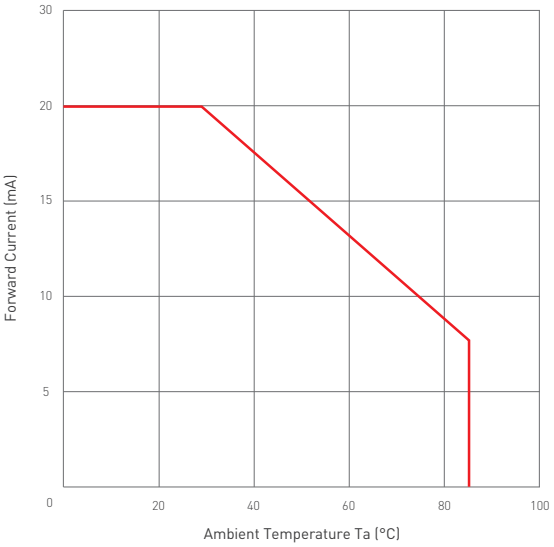
Relative Intensity VS Ambient Temp



Relative Intensity VS Forward Current



Forward Current VS Ambient Temp



Radiation Characteristics