ВЫВОДНОЙ СВЕТОДИОД КРУГЛЫЙ

ARL-3214PGC-12cd

3 mm

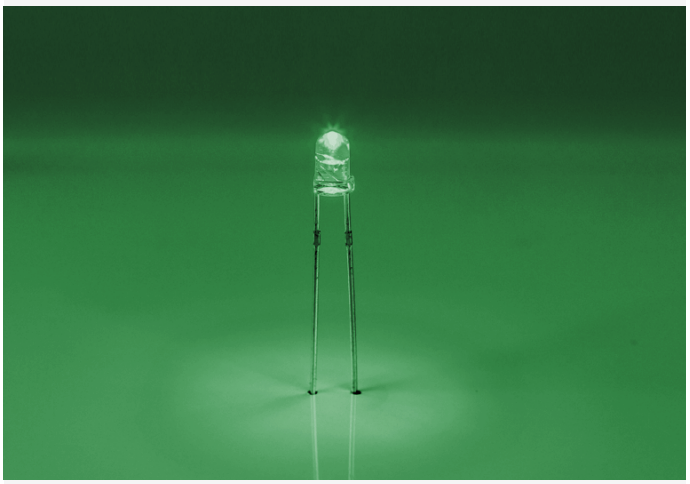
CLEAR

FEATURES

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

DESCRIPTIONS

- The LED lamps are available with different colors, intensities, epoxy colors, etc.
- Superior performance in outdoor environment.



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 20 mA.

APPLICATIONS

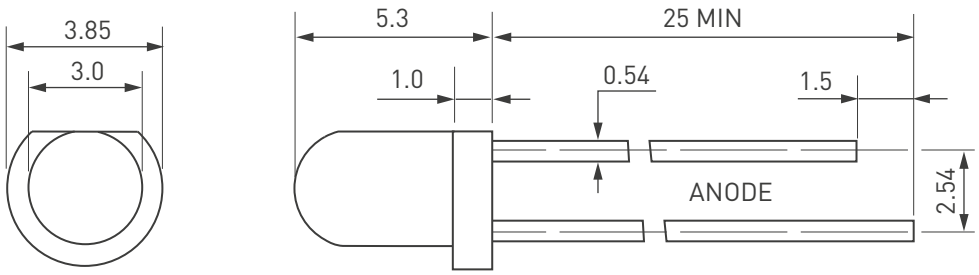
- Status indicators.
- Commercial use.
- Advertising signs.
- Back lighting.

DEVICE SELECTION GUIDE

LED Part No.	CHIP		Lens Color
	Material	Emitted Color	
ARL-3214PGC-12cd	**InGaN**	**Green**	**Water clear**

ATTENTION!
ELECTROSTATIC SENSITIVE DEVICES.
OBSERVE PRECAUTIONS FOR HANDLING.

PACKAGE DIMENSIONS



Unit: mm.

Notes:

Other dimensions are in millimeters, tolerance is 0.25 mm except being specified.

Protruded resin under flange is 1.5 mm, max LED.

Bare copper alloy is exposed at tie-bar portion after cutting.

ABSOLUTE MAXIMUM RATING (T_A = +25 °C)

Parameter	Symbol	Absolute Maximum Rating	Unit
Reverse Voltage	**V_R**	**5**	**V**
Operating Temperature	**Topr**	**–40... +80**	**°C**
Storage Temperature	**Tstg**	**–40... +100**	**°C**
Soldering Heat (5s)	**Tsol**	**260**	**°C**

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	**Iv**	**6000**	**9600**	**—**	**mcd**	**If=20mA (Note 1)**
Viewing Angle	**2θ½**	**15**	**—**	**20**	**Deg**	**Note 2**
Peak Emission Wavelength	**λ_P**	**520**	**525**	**530**	**nm**	**If=20mA**
Spectral Line Half-Width	**Δλ**	**30**	**35**	**40**	**nm**	**If=20mA**
Forward Voltage	**V_F**	**2.9**	**—**	**3.5**	**V**	**If=20mA**
Reverse Current	**I_R**	**—**	**—**	**10**	**μA**	**VR=5V**

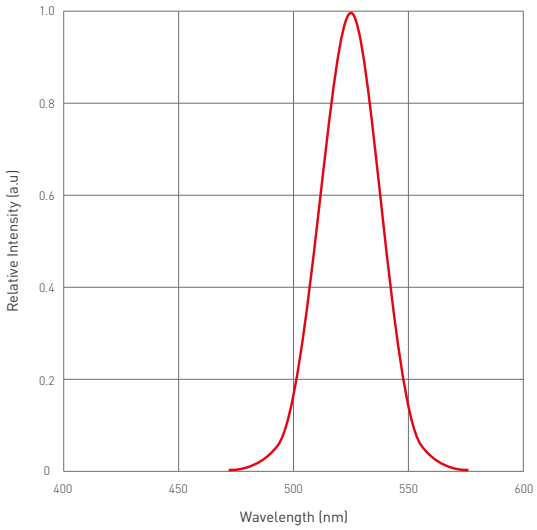
Note:

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

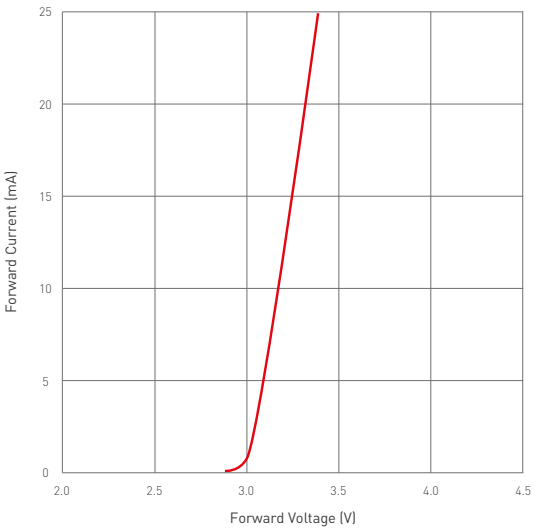
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

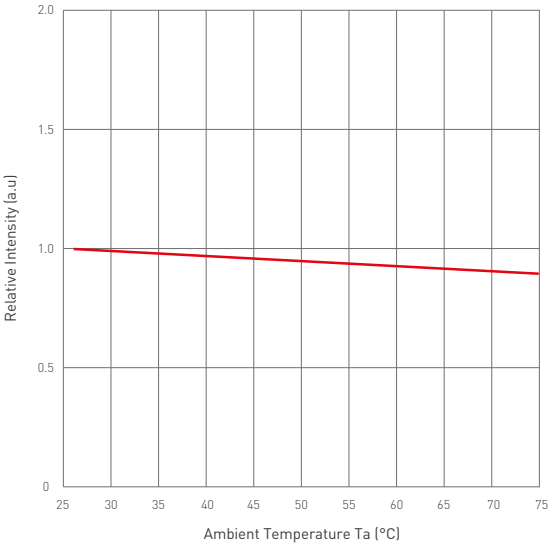
Relative Intensity VS Wavelength



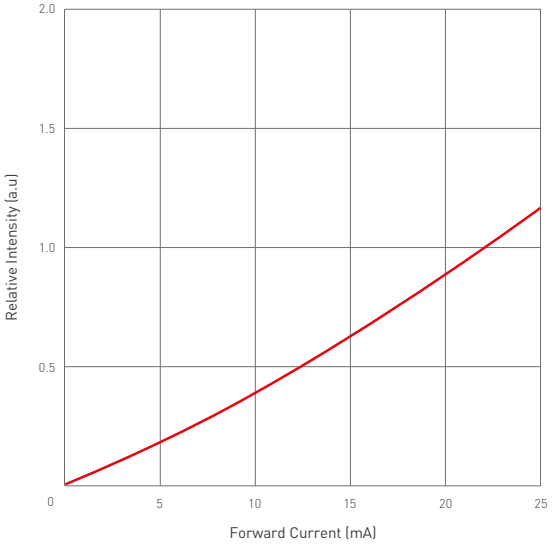
Forward Current VS Forward Voltage



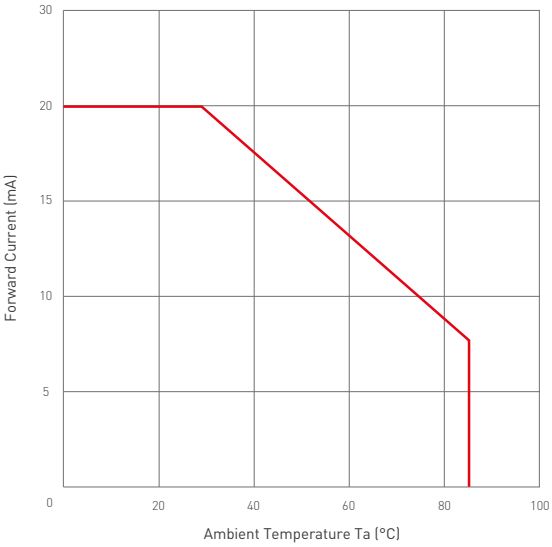
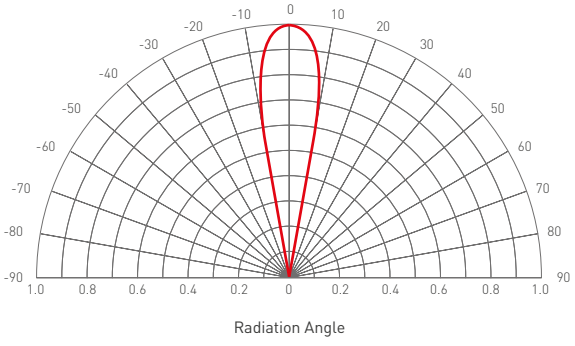
Relative Intensity VS Ambient Temp



Forward Current VS Relative Intensity



Forward Current VS Ambient Temp



Radiation Characteristics