

# ВЫВОДНОЙ СВЕТОДИОД КРУГЛЫЙ

**ARL-3214URC-1.5cd**

## FEATURES

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

## DESCRIPTIONS

- The series is specially designed for applications requiring higher brightness.
- The LED lamps are available with different colors, intensities, epoxy colors, etc.
- Superior performance in outdoor environment.

## APPLICATIONS

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

## DEVICE SELECTION GUIDE

LED Part No.	CHIP		Lens Color
	Material	Emitted Color	
<b>ARL-3214URC-1.5cd</b>	<b>AlGaInP</b>	<b>Red</b>	<b>Water clear</b>



3 mm



CLEAR



### USAGE NOTES:

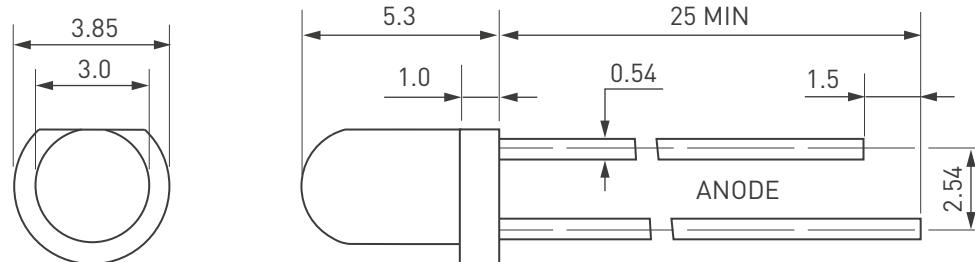
Surge will damage the LED.

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.

### 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 ( $T_A = +25^\circ\text{C}$ )

Parameter	Symbol	Absolute Maximum Rating	Unit
Reverse Voltage	$V_R$	5	V
Operating Temperature	$T_{opr}$	-40... +80	°C
Storage Temperature	$T_{stg}$	-40... +100	°C
Soldering Heat (5s)	$T_{sol}$	260	°C

## ELECTRO-OPTICAL CHARACTERISTICS ( $T_A = +25^\circ\text{C}$ )

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	$I_V$	800	—	1200	mcd	$I_f=20\text{mA}$ (Note 1)
Viewing Angle	$2\theta_{1/2}$	15	20	25	Deg	Note 2
Peak Emission Wavelength	$\lambda_P$	620	630	635	nm	$I_f=20\text{mA}$
Spectral Line Half-Width	$\Delta\lambda$	15	20	25	nm	$I_f=20\text{mA}$
Forward Voltage	$V_F$	1.9	—	2.3	V	$I_f=20\text{mA}$
Reverse Current	$I_R$	—	—	10	$\mu\text{A}$	$V_R=5\text{V}$

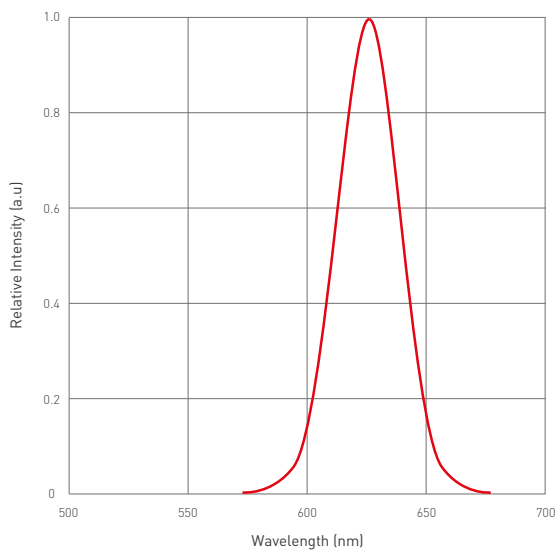
### Note:

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

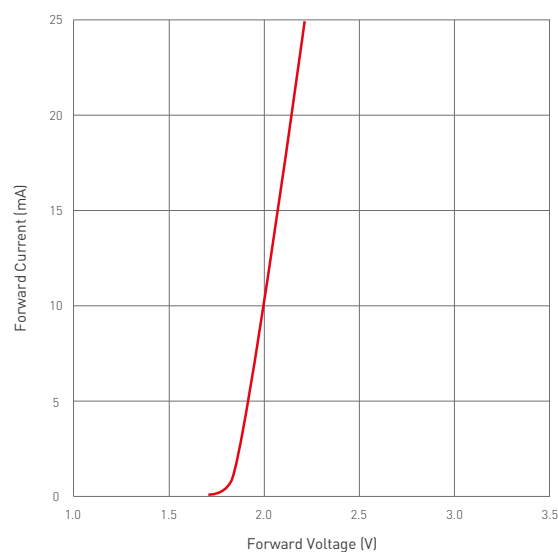
2.  $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

# TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

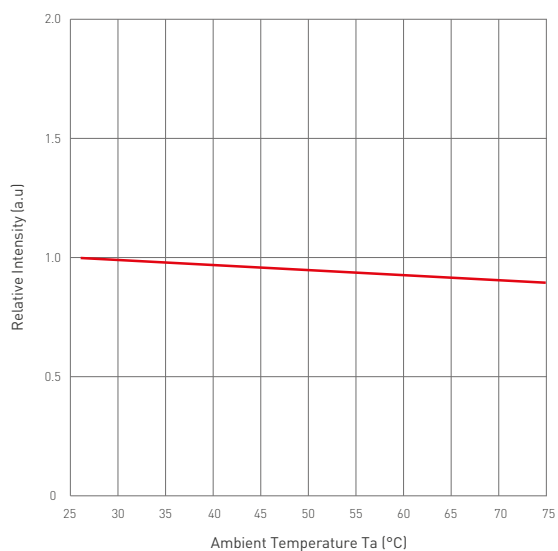
Relative Intensity VS Wavelength



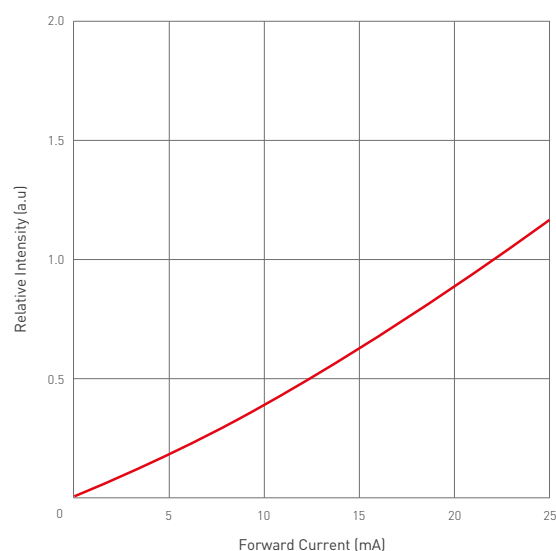
Forward Current VS Forward Voltage



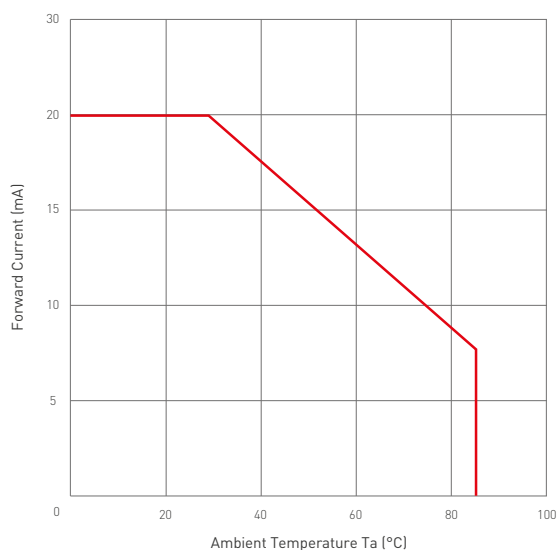
Relative Intensity VS Ambient Temp



Forward Current VS Relative Intensity



Forward Current VS Ambient Temp



Radiation Characteristics

