

ВЫВОДНОЙ СВЕТОДИОД КРУГЛЫЙ

ARL-3514UYD-150mcd

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

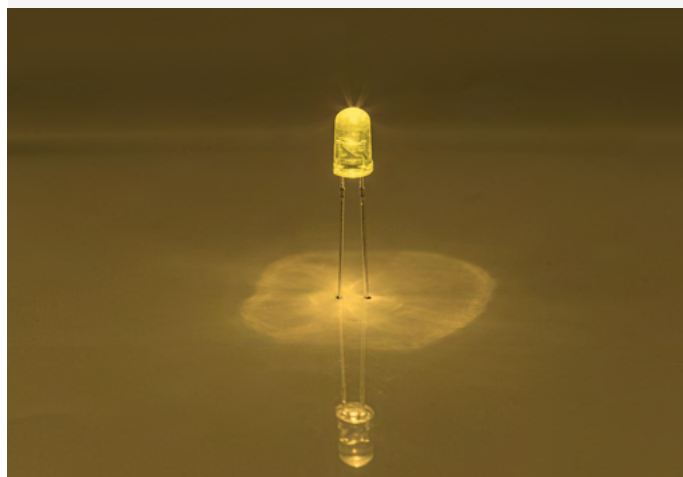
LED Part No.	CHIP		Lens Color
	Material	Emitted Color	
ARL-3514UYD-150mcd	AlGaInP	Yellow	Color Diffused



3 mm



DIFFUSE



USAGE NOTES:

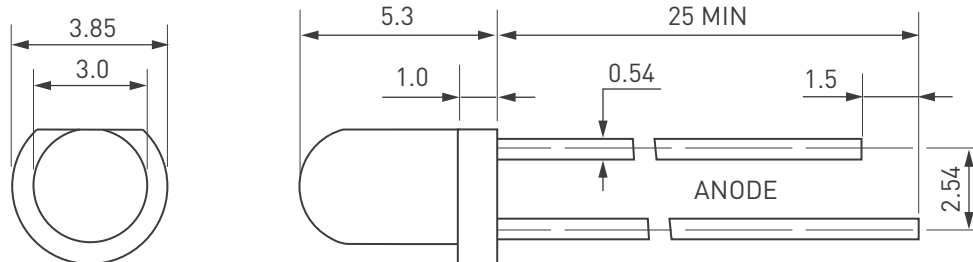
Surge will damage the LED.

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



ATTENTION!
ELECTROSTATIC SENSITIVE DEVICES.
OBSERVE PRECAUTIONS FOR HANDLING.

PACKAGE DIMENSIONS



Unit: mm.

Notes:

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

Protruded resin under flange is 1.5mm, Max LED.

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

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

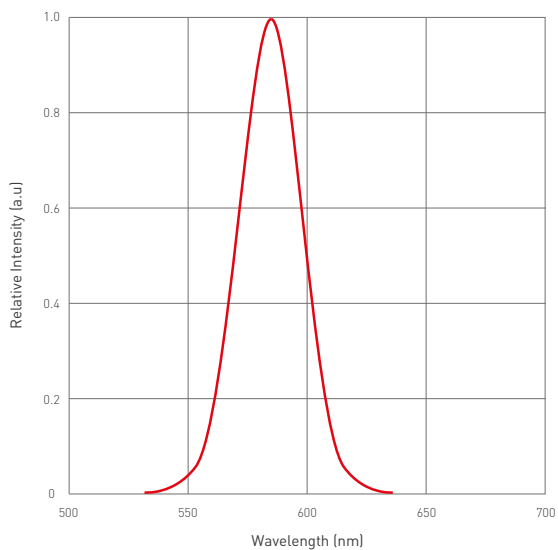
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_V	300	400	—	mcd	$I_f=20\text{mA}$ (Note 1)
Viewing Angle	$2\theta_{1/2}$	—	40	—	Deg	Note 2
Peak Emission Wavelength	λ_P	580	—	595	nm	$I_f=20\text{mA}$
Spectral Line Half-Width	$\Delta\lambda$	15	20	25	nm	$I_f=20\text{mA}$
Forward Voltage	V_F	1.9	—	2.3	V	$I_f=20\text{mA}$
Reverse Current	I_R	—	—	10	μA	$V_R=5\text{V}$

Note:

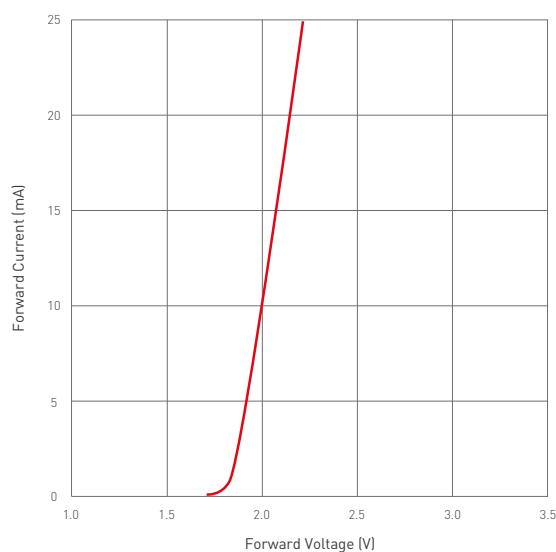
- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

Relative Intensity VS. Wavelength



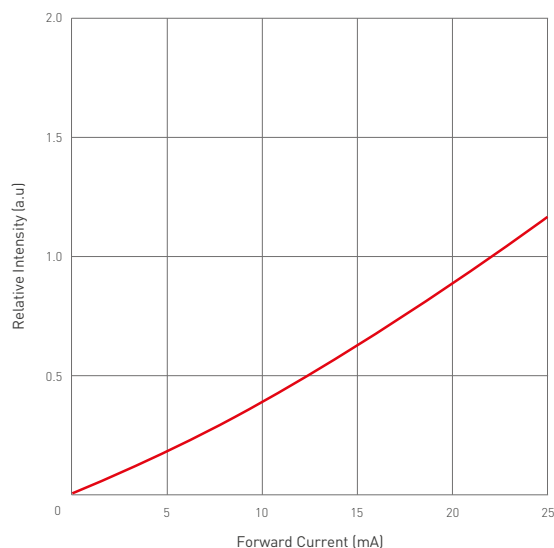
Forward Current VS Forward Voltage



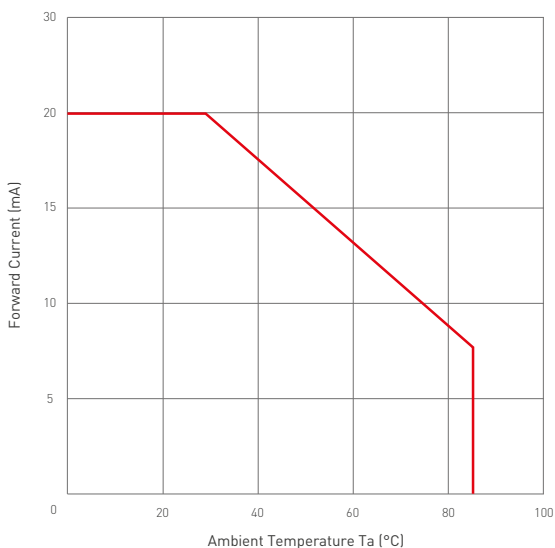
Relative Intensity VS Ambient Temp



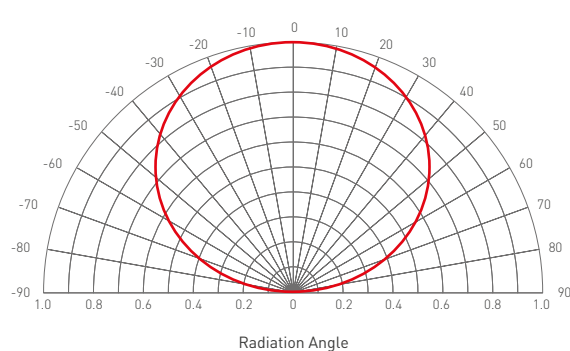
Forward Current VS Relative Intensity



Forward Current VS Ambient Temp



Radiation Characteristics



NOTES

1. Above specification may be changed without notice. Will reserve authority on material change for above specification.
2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. Assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
3. These specification sheets include materials protected under copyright of the corporation. Please don't reproduce or cause anyone to reproduce them without consent.