ВЫВОДНОЙ СВЕТОДИОД КРУГЛЫЙ

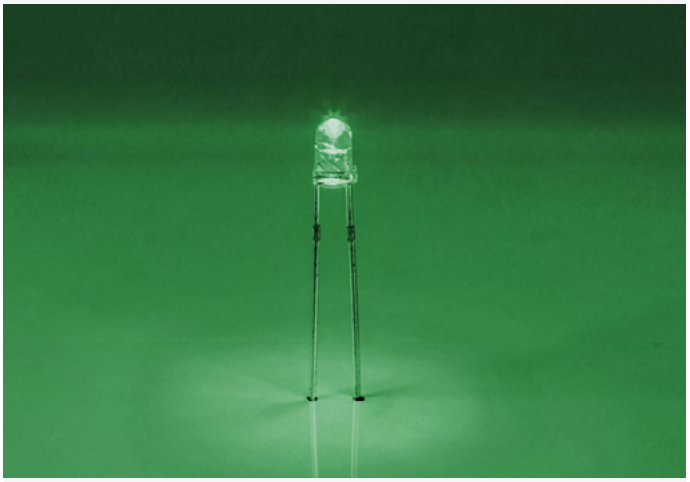
ARL-3514UGW-150mcd

3 mm

DIFFUSE

FEATURES

- Choice of various viewing angles
- Low power consumption
- General purpose leads
- Available on tape and reel
- Reliable and robust
- The product itself will remain within RoHS compliant version
- Pb free



DESCRIPTIONS

- The LED lamps are available with different colors, intensities, epoxy colors, etc.

USAGE NOTES:

When using LED, it must use a protective resistor in series with DC current about 18 mA.

APPLICATIONS

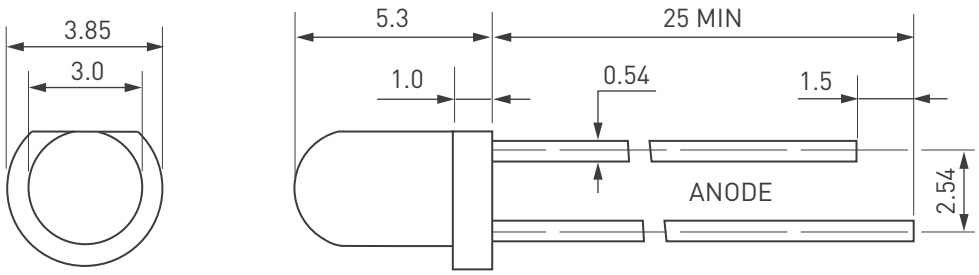
- TV set
- Monitor
- Telephone
- Computer

DEVICE SELECTION GUIDE

LED Part No.	CHIP		Lens Color
	Material	Emitted Color	
ARL-3514UGW-150mcd	**GaP**	**Green**	**White Diffused**

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
Forward Pulse Current	**I_{FPM}**	**100**	**mA**
Forward Current	**I_{FM}**	**30**	**mA**
Reverse Voltage	**V_R**	**5**	**V**
Power Dissipation	**P_D**	**90**	**mW**
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**	**10**	**—**	**30**	**mcd**	**If=20mA (Note 1)**
Viewing Angle	**2θ½**	**40**	**—**	**60**	**Deg**	**Note 2**
Peak Emission Wavelength	**λ_P**	**565**	**570**	**575**	**nm**	**If=20mA**
Spectral Line Half-Width	**Δλ**	**15**	**20**	**25**	**nm**	**If=20mA**
Forward Voltage	**V_F**	**1.9**	**—**	**2.3**	**V**	**If=20mA**
Reverse Current	**I_R**	**—**	**—**	**10**	**μA**	**VR=5V**

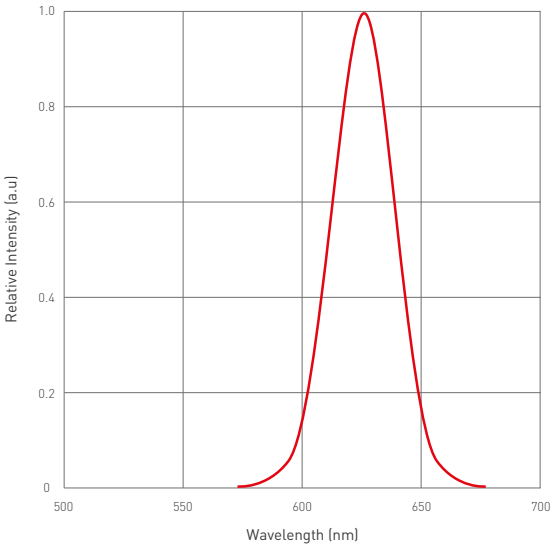
Note:

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

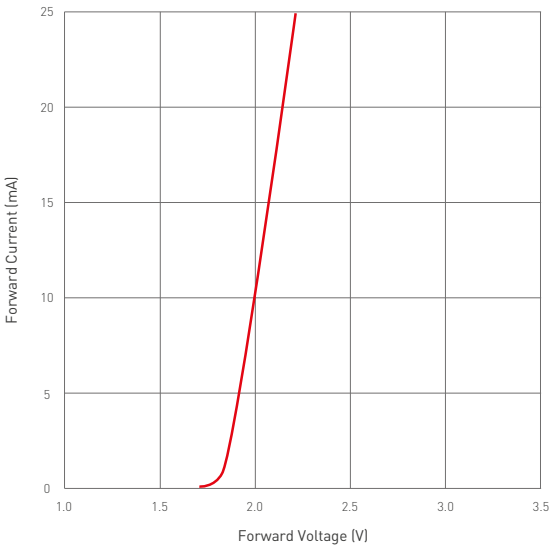
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

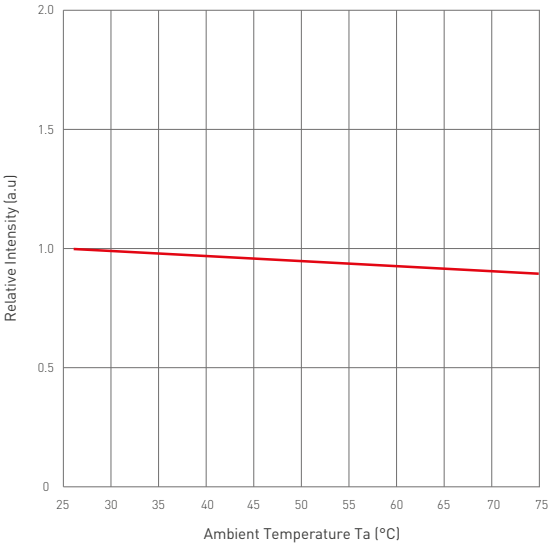
Relative Intensity VS Wavelength



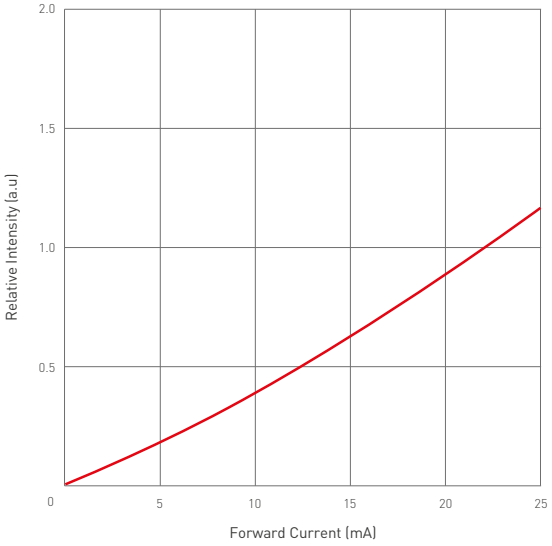
Forward Current VS Forward Voltage



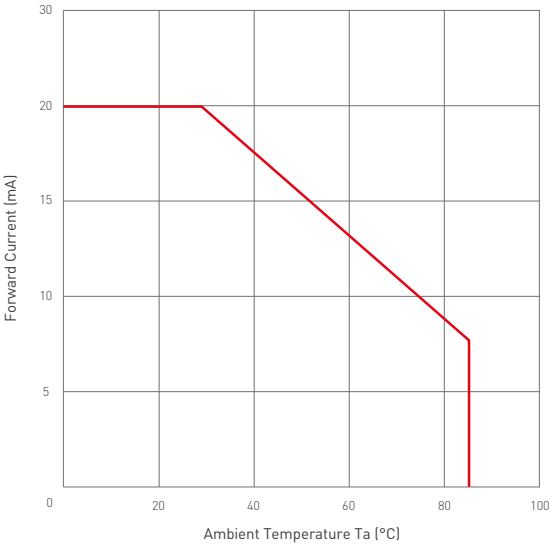
Relative Intensity VS Ambient Temp



Forward Current VS Relative Intensity



Forward Current VS Ambient Temp



Radiation Characteristics