ARL-3514UGD-150mcd

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 18mA

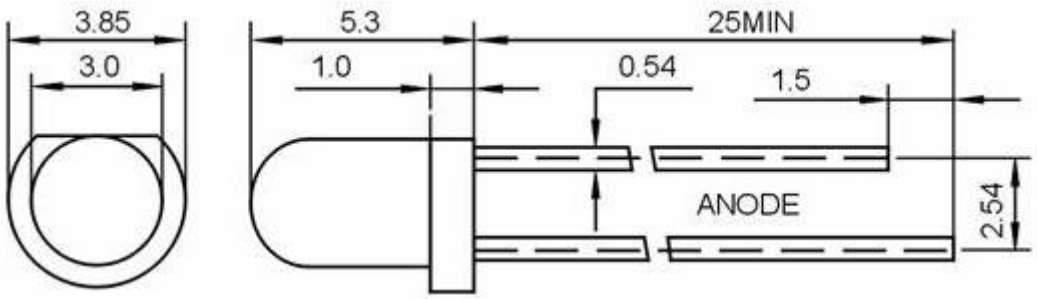
Applications

- TV set
- Monitor
- Telephone
- Computer

Device Selection Guide

LED Part No.	Chip		Lens Color
	Material	Emitted Color	
ARL-3514UGD-150mcd	GaP	Green	Color Diffused

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.

Absolute Maximum Rating (Ta=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	□
Storage Temperature	Tstg	-40～+100	□
Soldering Heat (5s)	Tsol	260	□

Note: **1:Soldering time ≦ 5 seconds.*

Electro-Optical Characteristics (Ta=25°C)

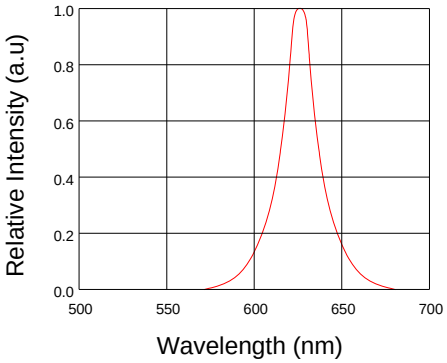
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv	50	---	100	mcd	IF=20mA(Note1)
Viewing Angle	$2\theta_{1/2}$	---	40	---	Deg	(Note 2)
Peak Emission Wavelength	λp	565	570	575	nm	IF=20mA
Spectral Line Half-Width	Δλ	15	20	25	nm	IF=20mA
Forward Voltage	V_F	1.9	---	2.3	V	IF=20mA
Reverse Current	I_R	---	---	10	μA	VR=5V

Note:

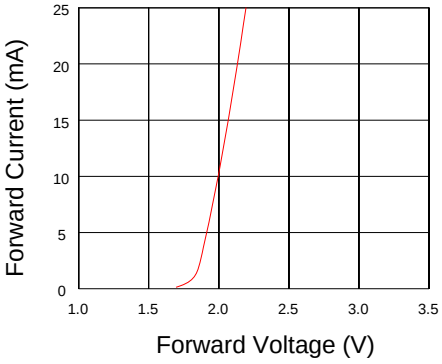
1. *Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.*
2. *$\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.*

Typical Electro-Optical Characteristics Curves

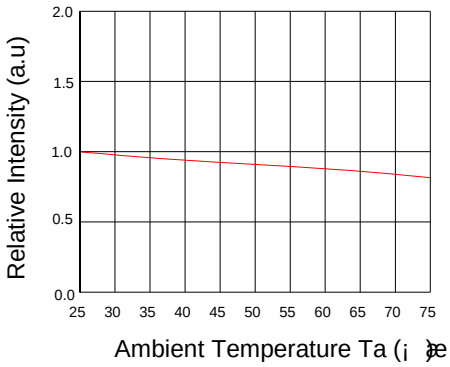
Relative Intensity VS. Wavelength



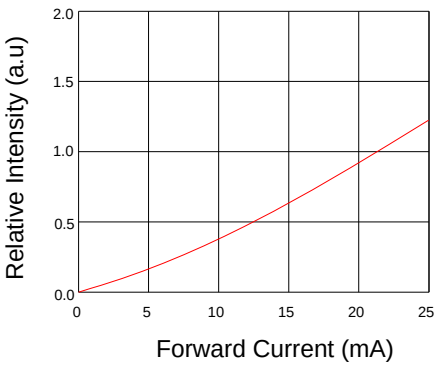
Forward Current VS.Forward Voltage



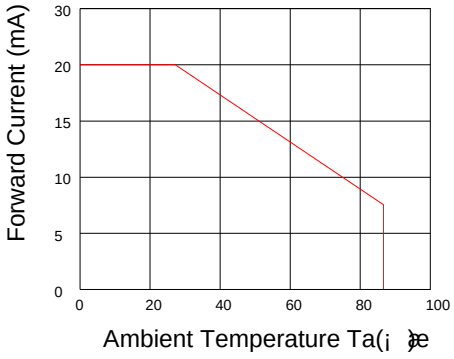
Relative Intensity VS. Ambient Temp



Forward Current VS.Relative Intensity



Forward Current VS.Ambient Temp.



Radiation Characteristics