

ARL-5613URW-3cd

Features

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

Applications

Status indicators
 Commercial use
 Advertising Signs
 Back lighting

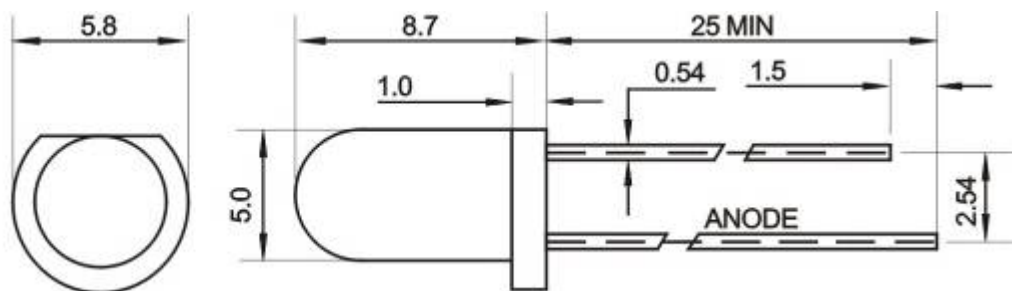
Descriptions

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

Usage Notes:

Surge will damage the LED
 When using LED, it must use a protective resistor in series with DC current about 20mA

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.

Device Selection Guide

LED Part No.	Chip		Lens Color
	Material	Emitted Color	
ARL-5613URW-3cd	AlGaInP	Red	White Diffused

Absolute Maximum Rating (Ta=25°C)

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	I _{FPM}	70	mA
Forward Current	I _{FM}	30	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	140	mW
Operating Temperature	Topr	-40~+80	°C
Storage Temperature	Tstg	-40~+100	°C
Soldering Heat (3s)	Tsol	260	°C

Electro-Optical Characteristics (Ta=25 °C)

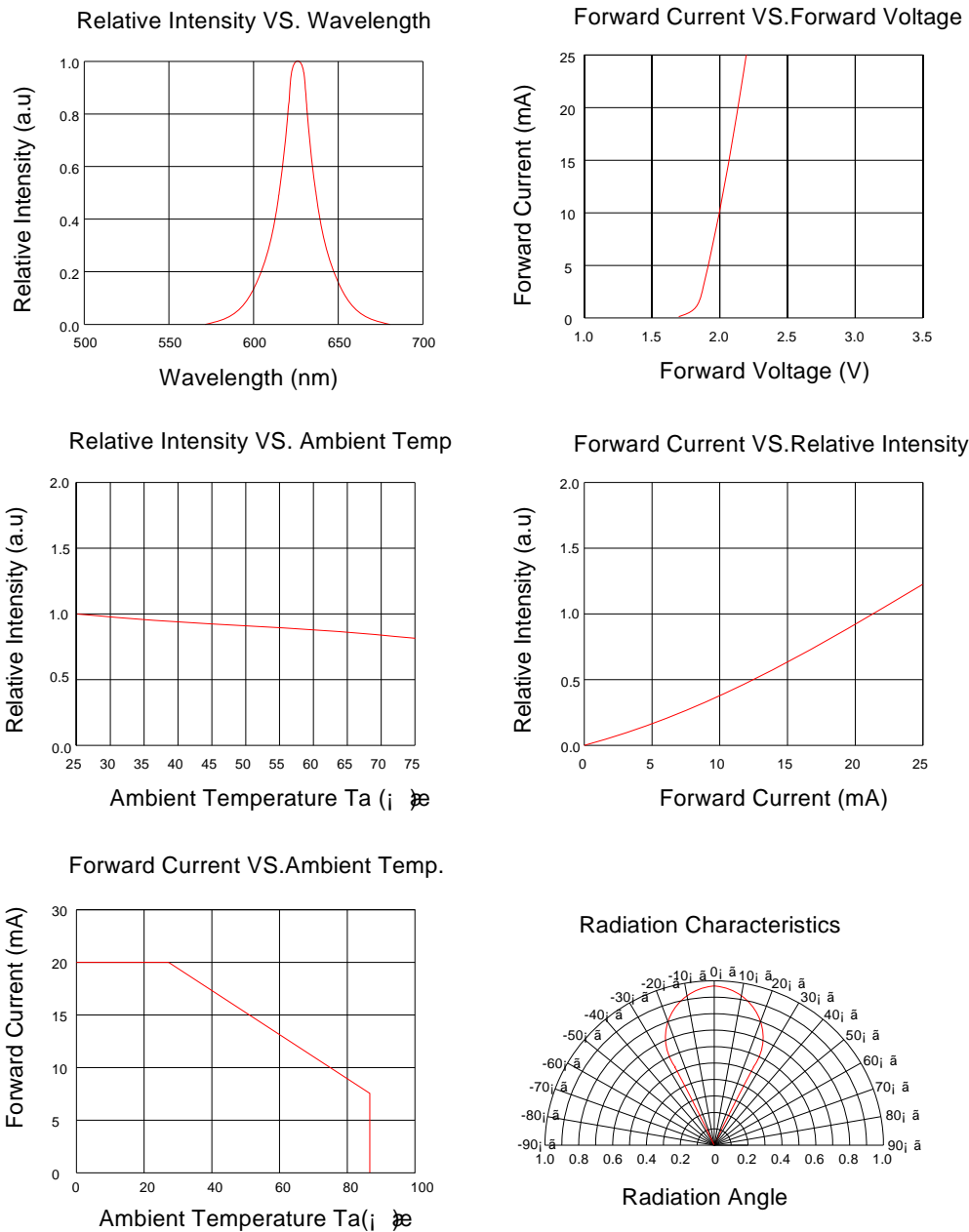
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v	500	650	700	mcd	IF=20mA(Note1)
Viewing Angle	2θ _{1/2}	40	---	60	Deg	(Note 2)
Peak Emission Wavelength	λ _p	620	625	630	nm	IF=20mA
Spectral Line Half-Width	Δλ	15	20	25	nm	IF=20mA
Forward Voltage	V _F	1.9	---	2.4	V	IF=20mA
Reverse Current	I _R	---	---	10	μA	VR=5V

Note:

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

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

Typical Electro-Optical Characteristics Curves



Notes

1. Above specification may be changed without notice. HYLELED 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. HYLELED 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.
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