

ARL-5613URD-1cd

FEATURES

High efficiency

Selected minimum intensities

• Low Power consumption

Available on tape and reel

• General purpose leads

• 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.

· Advertising Signs

Commercial use.

Back lighting

USAGE NOTES

• Surge will damage the LED.

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

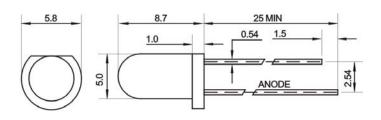
Device Selection Guide

LED Part No.		Chip	Lens Color
	Material	Emitted Color	Lens Color
ARL-5613URD-1cd	AlGaInP	Red	Color Diffused

PACKAGE DIMENSIONS

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}	140	mW
Operating Temperature	Topr	-40 ~+80	°C
Storage Temperature	Tstg	-40 ~+100	°C
Soldering Heat (5s)	Tsol	260	°C

Electro-Optical Characteristics (Ta=25 °C)

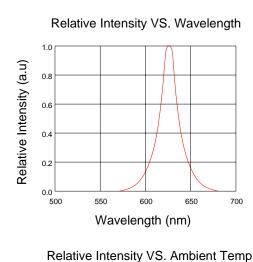
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	lv	250	800	1000	mcd	IF=20mA(Note1)
Viewing Angle	2θ _{1/2}	30		40	Deg	(Note 2)
Peak Emission Wavelength	λр	620	630	635	nm	IF=20mA
Spectral Line Half-Width	Δλ	15	20	25	nm	IF=20mA
Forward Voltage	V _F	1.9		2.3	V	IF=20mA
Reverse Current	I _R			10	μΑ	VR=5V

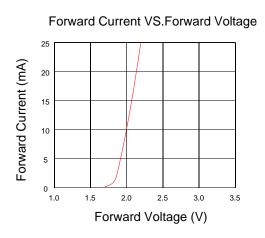


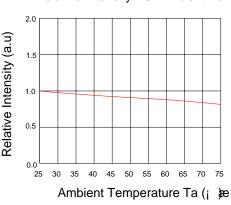
Note:

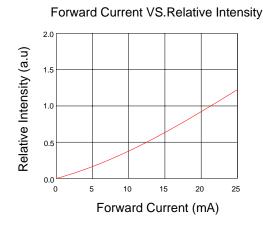
- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- θ1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

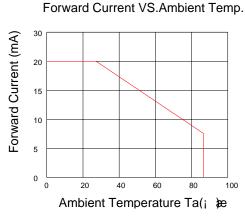
TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

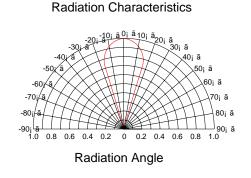












Note:

- Above specification may be changed without notice. Factory will reserve authority on material change for above specification.
- When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these
 specification sheets. Factory 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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