

# ARL-5053URC-2.5cd

### **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**

- The ultra bright LED is an electrostatic insensitive device, so static electricity and surge will damage the LED. It is required to wear a wrist-band when handling the LED. All device, equipment, machinery, desk and ground must be properly grounded
- When using LED, it must use a protective resistor in series with DC current about 20mA

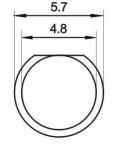
# **Device Selection Guide**

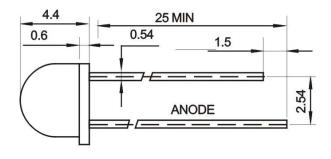
LED Part No.		Lens Color	
	Material	Emitted Color	Letis Coloi
ARL-5053URC-2.5cd	AlGaInP	Red	Water clear

# **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 <sub>FPM</sub>	70	mA
Forward Current	I <sub>FM</sub>	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	1000		2500	mcd	IF=20mA(Note1)
Viewing Angle	2θ <sub>1/2</sub>	120		140	Deg	(Note 2)
Peak Emission Wavelength	λр	625		630	nm	IF=20mA
Spectral Line Half-Width	Δλ	15	20	25	nm	IF=20mA
Forward Voltage	V <sub>F</sub>	1.9		2.5	V	IF=20mA
Reverse Current	I <sub>R</sub>			10	μΑ	VR=5V

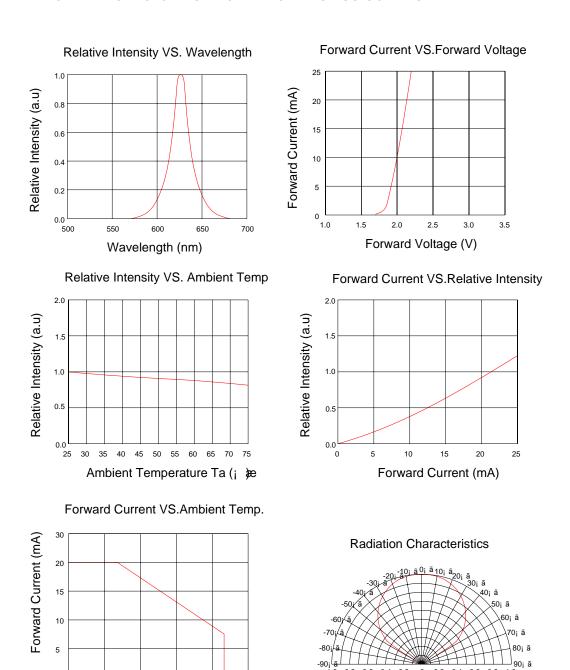




#### NOTE:

- 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



## Note:

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Ambient Temperature Ta(; )æ

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

Radiation Angle