

## ARL-5613URD-150mcd



### Features

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

### Usage Notes

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

### 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
- Commercial use
- Advertising Signs
- Back lighting

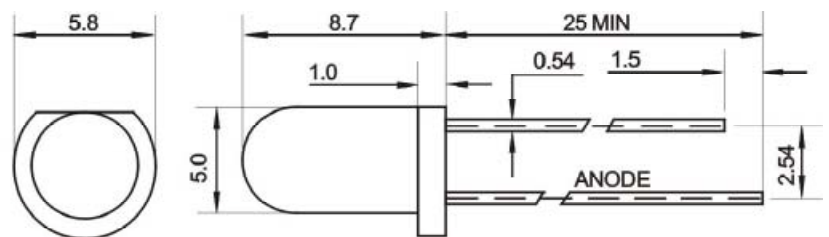
### Device Selection Guide

LED Part No.	Chip		Lens Color
	Material	Emitted Color	
ARL-5613URD-150mcd	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 at TA=25°C

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	IFPM	100	mA
Forward Current	IFM	30	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	140	mW
Operating Temperature	Topr	-40°C+80	°C
Storage Temperature	Tstg	-40°C+100	°C
Soldering Heat (5s)	Tsol	260	°C

## Typical Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I <sub>v</sub>	100	150	---	mcd	IF=20mA(Note1)
Viewing Angle	2θ1/2	40	50	60	Deg	(Note 2)
Peak Emission Wavelength	λ <sub>p</sub>	620	630	635	nm	IF=20mA
Spectral Line Half-Width	λ	15	20	25	nm	IF=20mA
Forward Voltage	V <sub>F</sub>	1.9	---	2.3	V	IF=20mA
Reverse Current	I <sub>R</sub>	---	---	10	μA	VR=5V

## Typical optical/electrical characteristics curves (T<sub>j</sub>=25°C unless otherwise noted)

