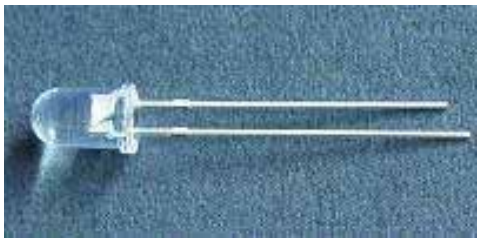
ARL-5313URC-1cd



FEATURES

- High efficiency
- Low Power consumption
- General purpose leads
- Selected minimum intensities
- Available on tape and reel
- 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.
- Commercial use.
- Advertising Signs
- Back lighting

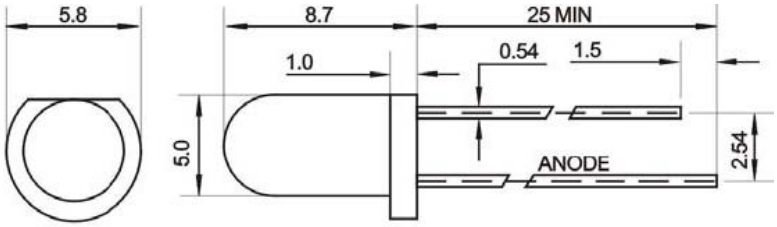
Device Selection Guide

LED Part No.	Chip		Lens Color
	Material	Emitted Color	
ARL-5313URC-1cd	GaAsP/GaP	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_{FPM}	100	mA
Forward Current	I_{FM}	30	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	140	mW
Operating Temperature	Topr	-25 ~+80	°C
Storage Temperature	Tstg	-30 ~+100	°C
Soldering Heat (5s)	Tsol	260	°C

Electro-Optical Characteristics (Ta=25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv	500	800	1000	mcd	IF=20mA(Note1)
Viewing Angle	$2\theta_{1/2}$	---	25	30	Deg	(Note 2)
Peak Emission Wavelength	λp	620	630	635	nm	IF=20mA
Spectral Line Half-Width	$\triangle\lambda$	15	20	25	nm	IF=20mA
Forward Voltage	V_F	1.8		2.3	V	IF=20mA
Reverse Current	I_R	---		10	μA	VR=5V

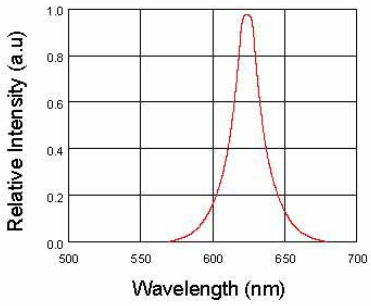
Note:

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

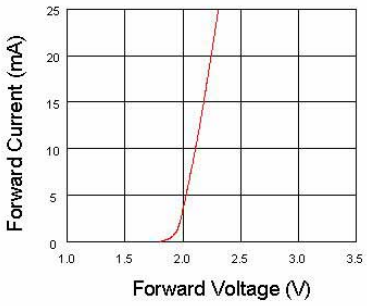
TECHNOLOGY DATE SHEET & SPECIFICATIONS

Typical Electro-Optical Characteristics Curves

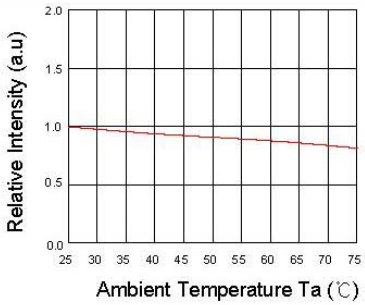
Relative Intensity VS. Wavelength



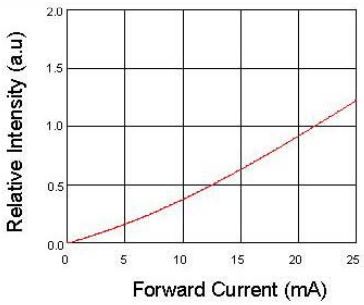
Forward Current VS.Forward Voltage



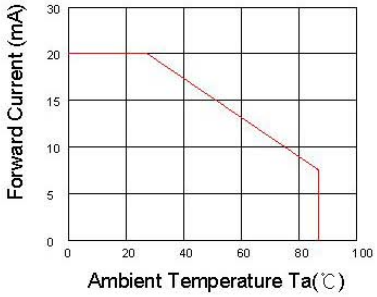
Relative Intensity VS. Ambient Temp



Forward Current VS.Relative Intensity



Forward Current VS.Ambient Temp.



Radiation Characteristics