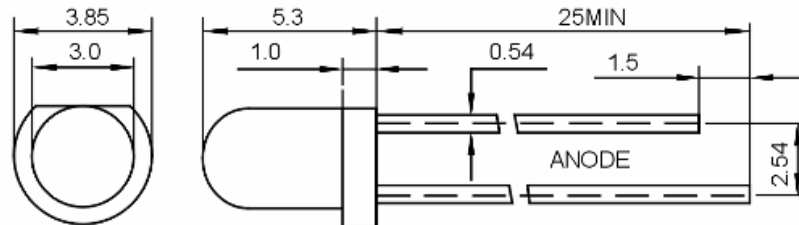




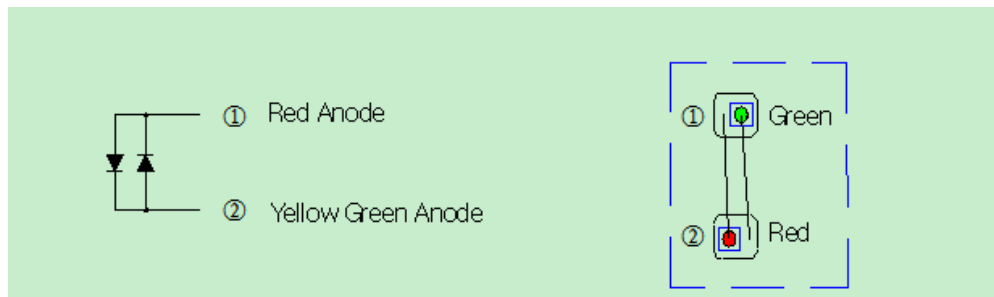
ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

ARL-3014UEUGC/2L

Package Dimensions



UNIT:mm



Notes: 1. Other dimensions are in millimeters, tolerance is 0.25mm except being specified.
2. Protruded resin under flange is 1.5mm Max LED.

Features

- Two chips are matched for uniform light output, wide viewing angle
- Long life-solid state reliability
- I.C.compatible/Low power consumption
- Pb free

Description

- The LED lamps contain two integral chips and is available as both bicolor and bipolar types
- The Bright Red and Green light is emitted by diodes of GaAsP/GaP and GaAsP/GaP respectively
- Type of bipolar lamps are both White Diffused and Color Diffused while the bicolor are White Diffused

Applications

- Status indicators
- Commercial use
- Advertising Signs
- 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

Absolute Maximum Rating ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Absolute Maximum Rating	Units
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	I_{FPM}	100	mA
Forward Current	I_{FM}	30	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	140	mW
Operating Temperature	T_{opr}	-40 ~ +80	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 ~ +100	$^\circ\text{C}$
Soldering Heat (5s)	T_{sol}	260	$^\circ\text{C}$

Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Device	Min	Typ.	Max.	Units	Test Conditions
Luminous Intensity	I _v	Red Green	800 600	--- ---	1000 900	mcd	IF=20mA
Viewing Angle	2θ1/2	Red Green	30	---	40	Deg	(Note 1)
Peak Emission Wavelength	λ _p	Red Green	620 565	630 570	635 575	nm	IF=20mA
Spectral Line Half-Width	λ	Red Green	15 15	20 20	25 25	nm	IF=20mA
Forward Voltage	V _F	Red Green	1.9 1.9	--- ---	2.5 2.5	V	IF=20mA
Reverse Current	I _R	Red Green	--- ---	--- ---	10 10	μA	VR=5V

Device Selection Guide

Part No.	Chip		Lens Color
	Material	Emitted Color	
ARL-3014UEUGC/2L	AlGaInP	Red	White clear
	AlGaInP	Green	

Typical Electro-Optical Characteristics Curves

