

FEATURES

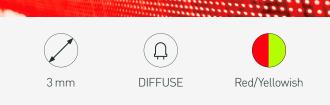
- Two chips are matched for uniform light output, wide viewing angle.
- Long life-solid state reliability.
- 7 I.C. compatible.
- Low power consumption.
- **7** Pb free.

DESCRIPTIONS

- The LED lamps contain two integral chips and are available as both bicolor and bipolar types.
- The Bright Red and Green light is emitted by diodes of GaAsP/GaP and GaAsP/GaP respectively.
- 7 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 20 mA.

DEVICE SELECTION GUIDE

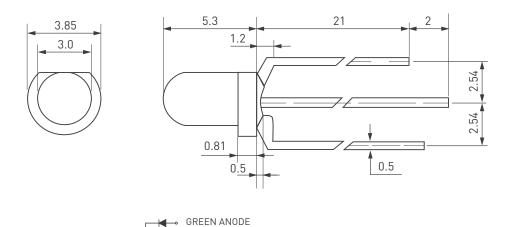
LED Part No.	CH		
	Material	Emitted Color	Lens Color
ARL-3014UEUGW/3L	AlGaInP	Red	White Differend
	AlGaInP	Green	White Diffused





PACKAGE DIMENSIONS

CENTER LEADS COMMON CATHODE



Unit: mm.

Notes:

Other dimensions are in millimeters, tolerance is 0.25 mm except being specified.

Protruded resin under flange is 1.5 mm Max LED.

Bare copper alloy is exposed at tie-bar portion after cutting.

ABSOLUTE MAXIMUM RATING $(T_A = +25 \, ^{\circ}\text{C})$

RED ANODE

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	I _{FPM}	100	mA
Forward Current	I _{FM}	30	mA
Reverse Voltage	$V_{_{\rm R}}$	5	V
Power Dissipation	$\mathbf{P}_{_{\mathrm{D}}}$	140	mW
Operating Temperature	Topr	-40 +80	°C
Storage Temperature	Tstg	-40 +100	°C
Soldering Heat (5s)	Tsol	260	°C

ELECTRO-OPTICAL CHARACTERISTICS (T_A=+25°C)

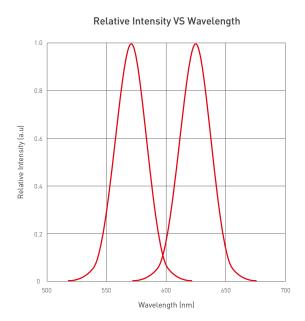
Parameter	Symbol	Device	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	lv	Red	100	150	250	mcd	If=20mA
		Green	100	150	250		
Viewing Angle	201/2	Red	30	_	40	Deg	(Note 1)
		Green					
Peak Emission Wavelength	λ_{P}	Red	620	630	635	nm	If=20mA
		Green	565	570	575		
Spectral Line Half-Width	Δλ	Red	15	20	25	nm	If=20mA
		Green	15	20	25		
Forward Voltage	V _F	Red	1.9	_	2.3	٧	If=20mA
		Green					
Reverse Current	I _R	Red	_	_	10	μА	VR=5V
		Green					

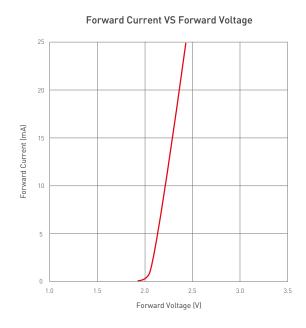
Note:

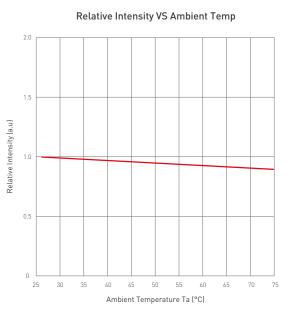
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{\eta z}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

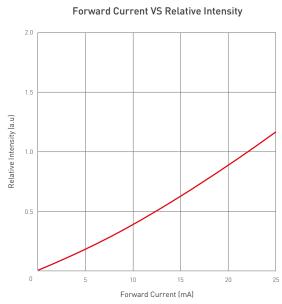


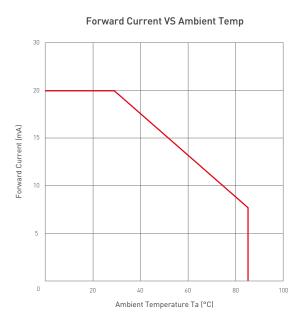
TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

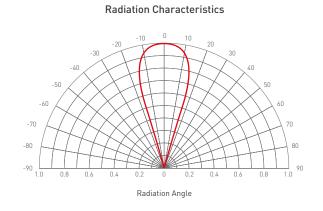














NOTES

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