

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.

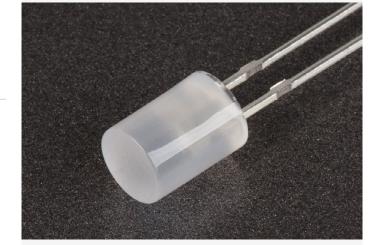






DIFFUSED





USAGE NOTES:

Surge will damage the LED.

When using LED, it must use a protective resistor in series with DC current about 20 mA.

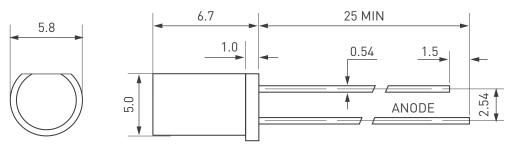
DEVICE SELECTION GUIDE

	CH			
LED Part No.	Material	Emitted Color	Lens Color	
ADL FOOOLIDLIOW/O	AlGainP	Red	Different	
ARL-5923URUGW/2L	InGaN	Green	Diffused	





PACKAGE DIMENSIONS



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

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	I _v	Red	50	_	100	mcd	If=20mA
		Green	400	_	600		
Viewing Angle	201/2	Red	30	_	40	Deg	(Note 1)
		Green					
Peak Emission Wavelength	λ _P	Red	620	630	635	nm	If=20mA
		Green	520	525	530		
Spectral Line Half-Width	Δλ	Red	15	20	25	nm	If=20mA
		Green	30	35	40		
Forward Voltage	V _F	Red	1.9	_	2.3	V	If=20mA
		Green	2.9		3.5		
Reverse Current	I _R	Red	_	_	10	μА	VR=5V
		Green					

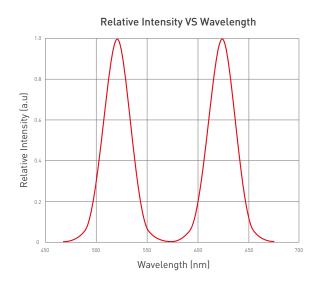
Note:

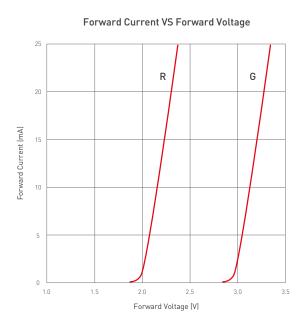
1. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

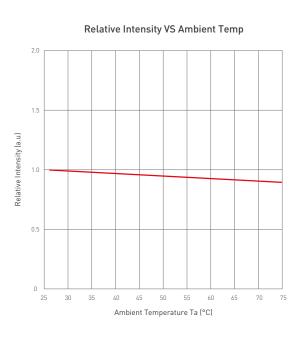


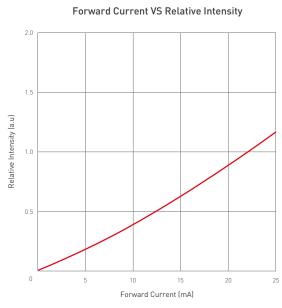


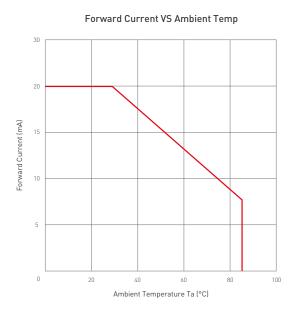
TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

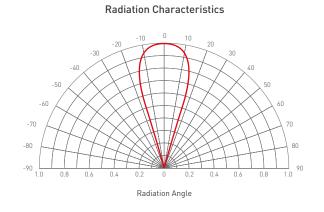














NOTES

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