

## **FEATURES**

- Hi-Eff Red and Yellow Green chips are matched for uniform light output.
- Common cathode.
- 7 T-1 type package.
- → Long life solid state reliability.
- Low power consumption.
- Pb free.
- The product itself will remain within RoHS compliant version.

### **DESCRIPTIONS**

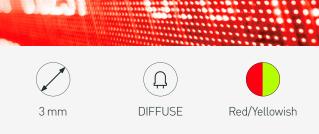
- The lamp contains two integral chips and is available bicolor.
- The Red and Yellow Green light is emitted by diodes of GaAsP/GaP and GaP respectively.
- → White Diffused lens color.

# **APPLICATIONS**

- 7 TV set.
- Monitor.
- 7 Telephone.
- **7** Computer.
- Circuit board.



LED Part No.	CHIP		
	Material	Emitted Color	Lens Color
ARL-3514EGW/3L	AlGaInP	Red	Differend
	GaAsP/GaP	Green	Diffused





USAGE NOTES:
Surge will damage the LED.

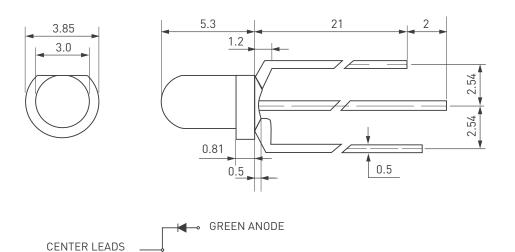
When using LED, it must use a protective resistor in series with DC current about 18 mA.





# PACKAGE DIMENSIONS

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 <sub>FPM</sub>	70	mA
Forward Current	I <sub>FM</sub>	30	mA
Reverse Voltage	$V_{_{\rm R}}$	5	V
Power Dissipation	$\mathbf{P}_{\scriptscriptstyle \mathrm{D}}$	140	mW
Operating Temperature	Topr	-40+80	°C
Storage Temperature	Tstg	-40 <b>+100</b>	°C
Soldering Heat (5s)	Tsol	260	°C

# ELECTRO-OPTICAL CHARACTERISTICS (T<sub>A</sub>=+25°C)

Parameter	Symbol	Device	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	lv	Red	100	150	180	mcd	If=20mA
		Green	70	90	120		
Viewing Angle	2θ1/2	Red	40	-	60	Deg	(Note 1)
		Green					
Peak Emission Wavelength	λ <sub>P</sub>	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 <sub>F</sub>	Red	1.9	-	2.3	V	If=20mA
		Green			2.4		
Reverse Current	I <sub>R</sub>	Red	_	_	10	μΑ	VR=5V
		Green					

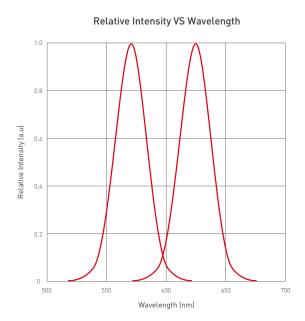
#### Note:

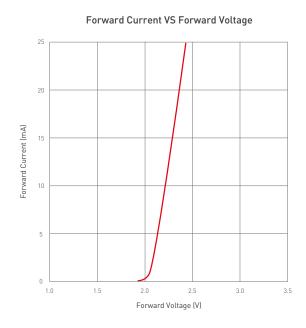
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2.  $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

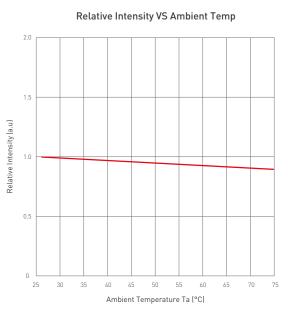


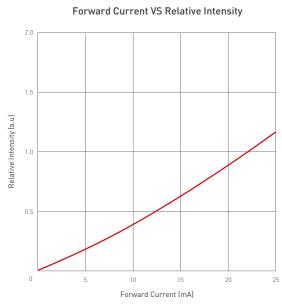


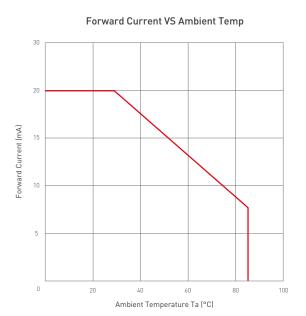
# TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

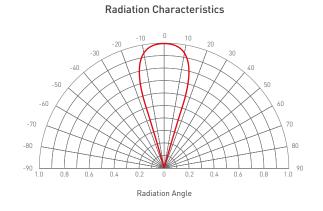














### **NOTES**

- 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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