

ARL-5019GYC

FEATURES

• Two chips are matched for uniform

Low power consumption

- light output,wide viewing angle
- Long life-solid state reliability
- I.C.compatible/

Low power consumption



DESCRIPTIONS

- 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

Pb free

APPLICATIONS

Status indicators.

Advertising Signs

Commercial use.

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

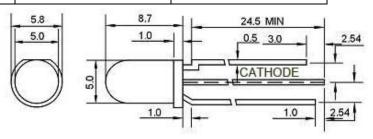
Device Selection Guide

LED Part No.		Lens Color		
	Material	Emitted Color	Lens Color	
ARL-5019GYC	GaAsP/GaP	Yellow	White Clear	
	GaAsP/GaP	Green		

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	-40 ~+80	°C
Storage Temperature	Tstg	-40 ~+100	°C
Soldering Heat (5s)	Tsol	260	°C

Electro-Optical Characteristics (Ta=25 °C)

Parameter	Symbol	Device	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	lv	Yellow	100	150		mcd	IF=20mA
		Green	150	200			
Viewing Angle	2θ _{1/2}	Yellow		30		Deg	(Note 1)
		Green					

Peak Emission Wavelength	λр	Yellow	580	590	595	nm	IF=20mA
		Green	565	570	575		
Spectral Line Half-Width	Δλ	Yellow	15	20	25	nm	IF=20mA
		Green	15	20	25		
Forward Voltage	V_{F}	Yellow	1.9		2.3	٧	IF=20mA
		Green	1.9		2.5		
Reverse Current	I _R	Yellow			10	μΑ	VR=5V
		Green					

Note:

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

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES

