

ARL-5413EGC/3L

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



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

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

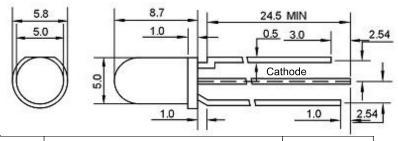
LED Part No.		Lens Color		
LLD Falt No.	Material	Emitted Color	Lens Color	
ARL-5413EGC/3L	GaAsP/GaP	Red	Water clear	
ARL-9413E0C/3L	GaAsP/GaP	Green	vvater ctear	

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	mΑ
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)

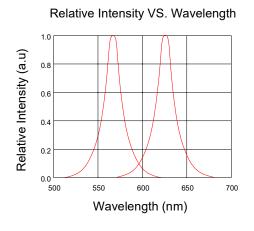
Parameter	Symbol	Device	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	lv	Red		200	400	mcd	IF=20mA
		Green					
Viewing Angle	2θ _{1/2}	Red		30		Deg	(Note 1)
		Green					
Peak Emission Wavelength	λр	Red	620	630	635	nm	IF=20mA
		Green	565	570	575		

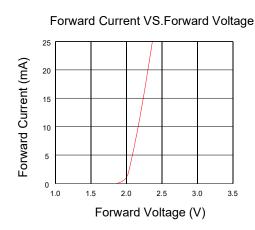
Chastral Line Half Width	^)	Red	15	20	25	nm	IF=20mA
Spectral Line Half-Width	Δλ	Green	15	20	20	nm	IF=ZUMA
Forward Voltage	V_{F}	Red	1.8		2.4	V	IF=20mA
		Green					
Davience Comment		Red			10		VD EV
Reverse Current	I _R	Green			10	μΑ	VR=5V

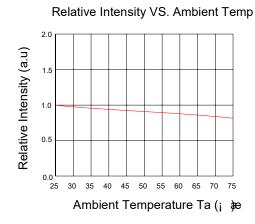
Note:

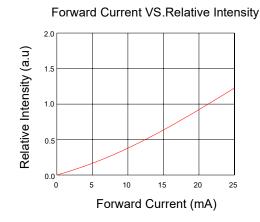
- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- θ 1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVES



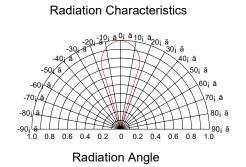






Forward Current VS.Ambient Temp.

Ambient Temperature Ta(;)æ



Note:

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