

ARL-10403URUGC/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 AlGaInP and InGaN respectively
- Type of bipolar lamps are both White Diffused and Color Diffused while the bicolor are White Diffused

Applications

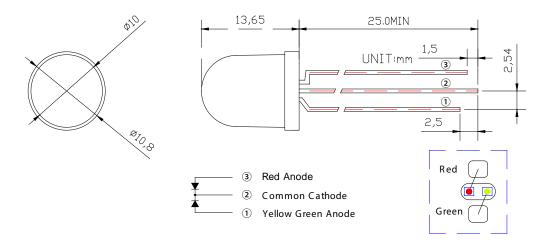
- Status indicators
- · Commercial use
- · Advertising Signs
- Back lighting

Usage Notes

- The ultra bright LED is an electrostatic insensitive device, so static electricity and surge
 will damage the LED. It is required to wear a wrist-band when handling the LED. All device, equipment, machinery, desk and ground must be properly grounded
- When using LED, it must use a protective resistor in series with DC current about 20Ma

LED Part No.	Ch	Long Color	
	Material	Emitted Color	Lens Color
ARL-10403URUGC/3L	AlGaInP	Red	Water clear
	InGaN Green		vvater clear

Paskage 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

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	IFPM	50	mA
Forward Current	IFM	30	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	140	mW
Operating Temperature	Topr	-40°+80	°C
Storage Temperature	Tstg	-40° + 100	°C
Soldering Heat (5s)	Tsol	260	°C

Electric-optical characteristics

Parameter	Symbol	Device	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	Red		1500	2000	mcd	IF=20mA
		Green		3000	4500		
Viewing Angle	201/2	Red	30		40	Deg	(Note 1)
		Green					
Peak Emission Wavelength	λр	Red	620	630	635	nm	IF=20mA
		Green	520	525	530		
Spectral Line Half-Width	λ	Red	15	20	25	nm	IF=20mA
		Green	30	35	40		
Forward Voltage	VF	Red	1.9		2.3	V	IF=20mA
		Green	2.9		3.4		
Reverse Current	IR	Red			10	μΑ	VR=5V
		Green					

Notes

- 1. Above specification may be changed without notice. Company 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. Company 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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Typical Electro-Optical Characteristics Curves

