

ARL-10403URUGW/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

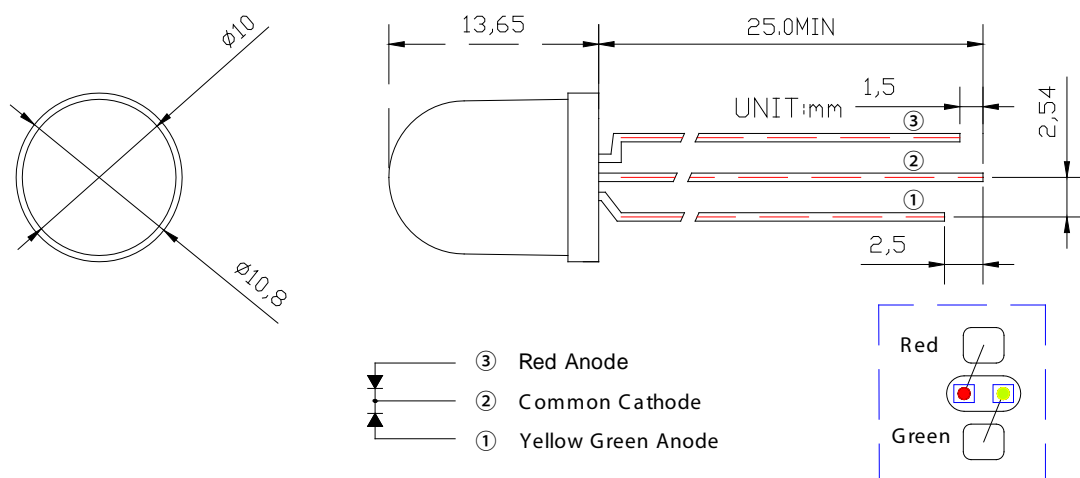
- Status indicators
- Commercial use
- Advertising Signs
- Back lighting

Usage Notes

- Surge will damage the LED
- When using LED, it must use a protective resistor in series with DC current about 20mA

LED Part No.	Chip		Lens Color
	Material	Emitted Color	
ARL-10403URUGW/3L	AlGaInP	Red	Diffused
	InGaN	Green	

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	100	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.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv	Red	800	1000	1500	mcd	IF=20mA
		Green	1000	1500	2000		
Viewing Angle	2θ1/2	Red	40	---	60	Deg	(Note 1)
		Green					
Peak Emission Wavelength	λp	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	---	3.5		
Reverse Current	IR	Red	---	---	10	μA	VR=5V
		Green					

Notes

- Above specification may be changed without notice. Company 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. 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

