

LED-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

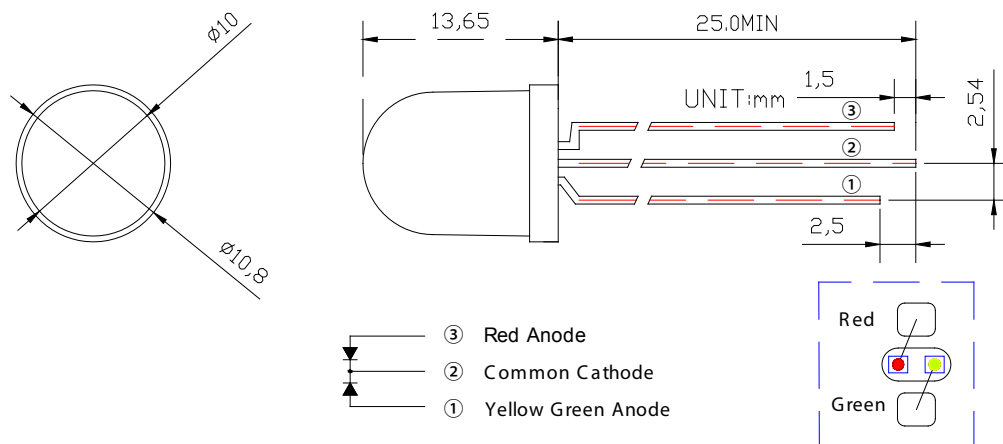
- Status indicators
- Commercial use
- Advertising Signs
- Back lighting

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.	Chip		Lens Color
	Material	Emitted Color	
LED-10403URUGC/3L	AlGaInP	Red	Water clear
	InGaN	Green	

PACKAGE DIMENSIONS



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

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	I_{FPM}	50	mA
Forward Current	I_{FM}	30	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	140	mW
Operating Temperature	T_{opr}	-40~+80	°C
Storage Temperature	T_{stg}	-40~+100	°C
Soldering Heat (5s)	T_{sol}	260	°C

Electro-Optical Characteristics

Parameter	Sym- bol	Device	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_v	Red	-	1500	2000	mcd	IF=20mA
		Green		3000	4500		
Viewing Angle	$2\theta_{1/2}$	Red	30	-	40	Deg	(Note 1)
		Green					
Peak Emission Wavelength	λ_p	Red	620	630	635	nm	IF=20mA
		Green	520	525	530		
Spectral Line Half-Width	$\Delta\lambda$	Red	15	20	25	nm	IF=20mA
		Green	30	35	40		
Forward Voltage	V_F	Red	1.9	-	2.3	V	IF=20mA
		Green	2.9	-	3.4		
Reverse Current	I_R	Red	-	-	10	μ A	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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