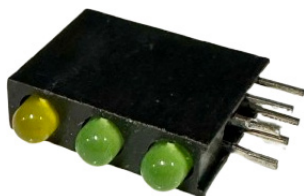


# Lamp With Holder Assembly multicomp<sup>PRO</sup>

RoHS  
Compliant



## Features

- Designed for ease in circuit board assembly.
- Black case enhance contrast ratio.
- Solid state light source.
- Reliable and rugged.
- 3mm diameter package.

## Applications

- TV set
- Monitor
- Telephone
- Computer
- Circuit board

## Specification

- Chip material : GaP (Yellow) and Gap(Green)
- Emitted colour : Yellow and Green
- Lens Appearance : Yellow Diffused and Green Diffused

## Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	Yellow	Green	Unit
Power Dissipation	P <sub>D</sub>	75		mW
Forward Current	I <sub>F</sub>	30		mA
Peak Forward Current*1	I <sub>FP</sub>	150		mA
Reverse Voltage	V <sub>R</sub>	5		V
Operating Temperature	T <sub>opr</sub>	-30°C To +80°C		
Storage Temperature	T <sub>stg</sub>	-40°C To +85°C		
Soldering Temperature	T <sub>sol</sub>	260°C (for 5 seconds)		

\*1Condition for I<sub>FP</sub> is pulse of 1/10 duty and 0.1msec width.

## Electrical and Optical Characteristics at TA=25°C

Parameter	Symbol	Conditions	Colour	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	Yellow Green	1.8 1.8		2.6 2.6	V
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> =20mA		30 40		80 80	mcd
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V		—	—	10 10	μA
Peak Wave Length	λ <sub>p</sub>	I <sub>F</sub> =20mA		—	—	—	nm
Dominate Wave Length	λ <sub>d</sub>			585 585	590 570	595 575	nm
Spectral Line Half-width	Δλ			—	30 30	—	nm
Viewing Angle	2θ <sub>1/2</sub>			—	45 45	—	Deg.

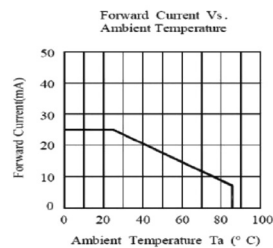
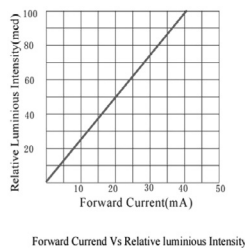
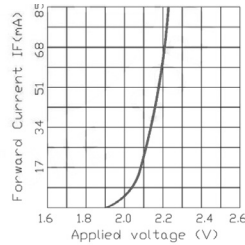
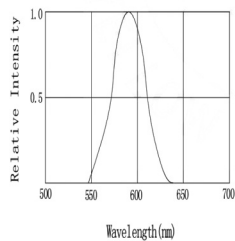
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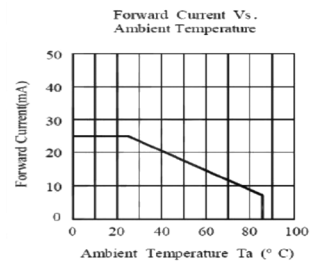
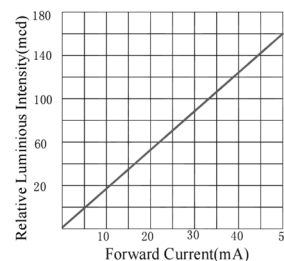
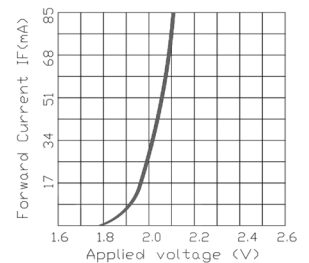
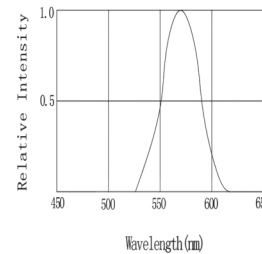
# Lamp With Holder Assembly **multicomp**PRO

## Typical Electrical/Optical Characteristics Curves

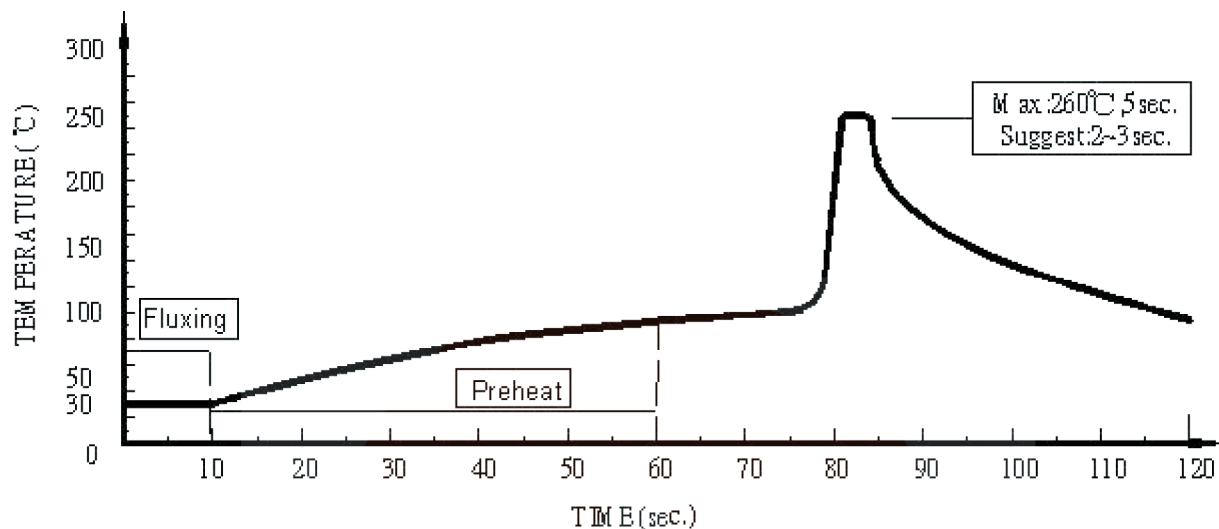
### Yellow



### Green



## Dip Soldering



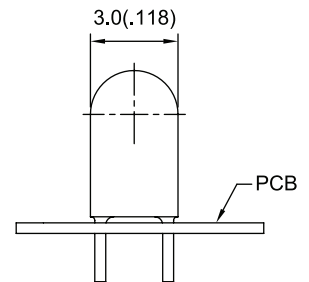
1. Please avoid any external stress applied to the lead-frames and epoxy while the LEDs are at high temperature, especially during soldering
2. DIP soldering and hand soldering should not be done more than one time.
3. After soldering, avoid the epoxy lens from mechanical shock or vibration until the LEDs are back to room temperature.
4. Avoid rapid cooling during temperature ramp-down process
5. Although the soldering condition is recommended above, soldering at the lowest possible temperature is feasible for the LEDs

# Lamp With Holder Assembly **multicomp**PRO

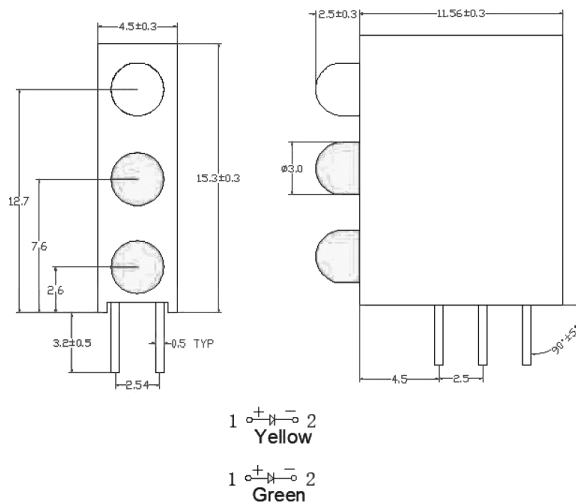
## Iron Soldering

A: Max: 350°C Within 3 sec. One time only.

B: The products of 3mm without flange, welding condition of flat plate PCB  
Max: 350°C Within 2 sec. One time only



## Dimensions



## Notes

1. Tolerance is  $\pm 0.25\text{mm}$  (0.01") unless otherwise specified.
2. Lead spacing is measured where the leads emerge from the package.
3. Specifications are subject to change without notice.

Dimensions : Millimetres (Inches)

## Part Number Table

Description	Part Number
3 LED Lamp With Holder, Yellow and Green, 4.5 × 15.3 × 11.5mm, 30mA	BL-51YGG-3

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