

## Electrical / Optical Characteristics at Ta = 25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	IV	12	18	22	mcd	IF = 20mA
Viewing Angle	2θ1/2		120		deg	
Peak Emission Wavelength	λp		570		nm	
Dominant Wavelength	λD	567	570	573	nm	
Spectral Line Half-Width	Δλ		30		nm	
Forward Voltage	VF	1.8	2.1	2.4	V	VR=5V
Reverse Current	Ir	-	-	10	uA	

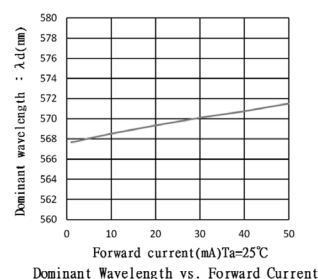
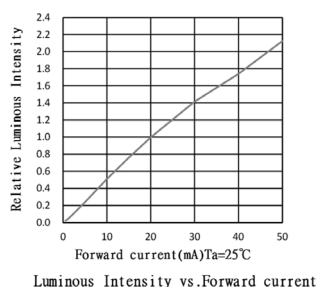
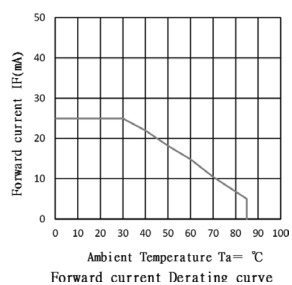
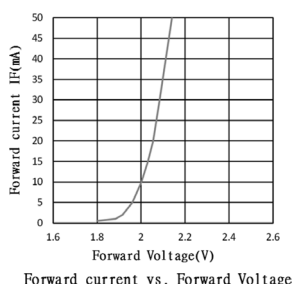
▲ Luminous intensity (IV) ±10%, Forward Voltage (VF) ±0.1V, Wavelength (λd) ±0.5nm

## Absolute Maximum Ratings: ( Ta = 25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	85	mW
Peak Forward Current (Duty 1/10 @ 1KHZ)	IF (Peak)	100	mA
Recommended Operating Current	IF (Rec)	30	mA
Electrostatic Discharge	ESD <sub>HBM</sub>	2000	V
Operating Temperature Range	T <sub>OPR</sub>	-40 to +85	°C
Storage Temperature Range	T <sub>STG</sub>	-40 to +100	
Lead Soldering Temperature Range (1.6 mm (1/16 inch) from body)	Reflow Soldering : 260°C for 5 sec. Hand Soldering : 350°C for 3 sec.		

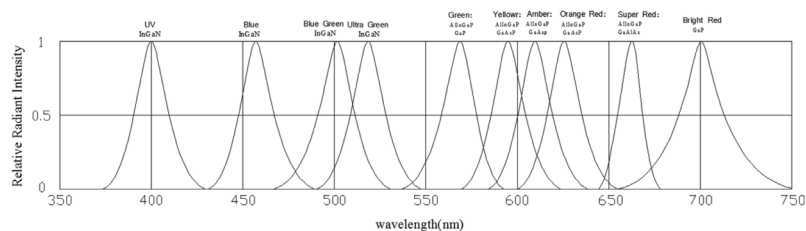
## Typical Electro-Optical Characteristics Curves

### Green (AlInGaP λP=570nm)



# Single Color LED

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Relative Intensity VS. wavelength

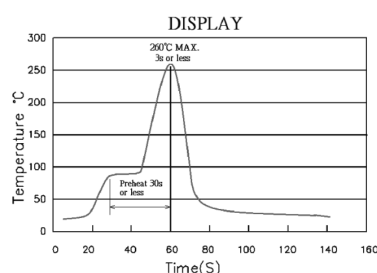
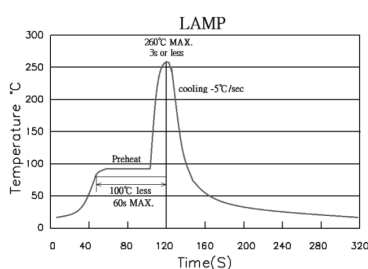
## Soldering Iron

Temperature at tip of iron : 350°C Max.

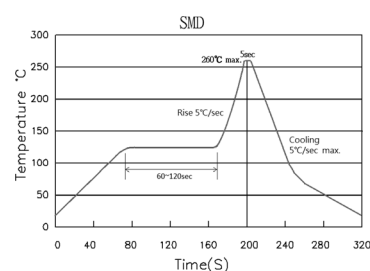
Soldering Time: 3 sec. ± 1 sec. (one time only)

If temperature is higher, time should be shorter

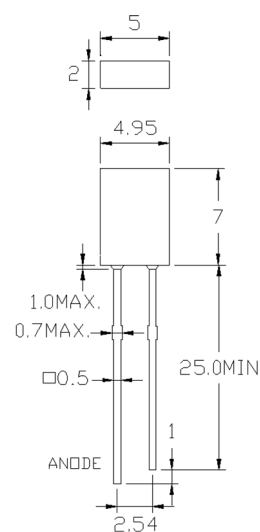
## Soldering heat (DIP)



## Reflow Temp./Time(SMD)



## Diagram



Dimensions : Millimetres

## Part Number Table

Description	Part Number
Single Color LED, Green, Flangeless Rectangular, 2mm × 5mm	L453XGD

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