

**RoHS  
Compliant**



## Specifications

Dice Material	: InGaN
Emitted Colour	: Super Blue
Lens Colour	: Water Clear
Peak Wavelength	: 470nm
Viewing Angle	: 120 Deg.
Luminous Intensity (IV)	: 72mcd

## Electrical / Optical Characteristics at T<sub>A</sub> = 25°C

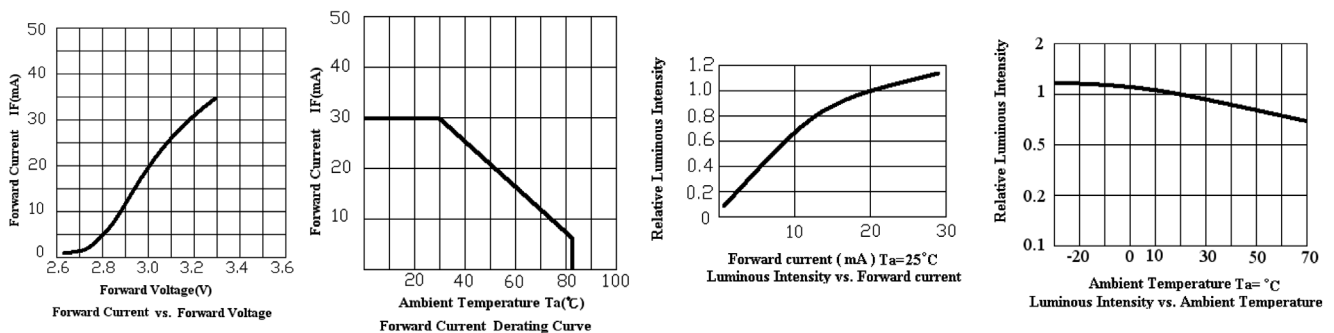
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test
Luminous Intensity	IV	45	72	115	mcd	IF = 20mA
Viewing Angle	2θ1/2		120		Deg.	
Peak Emission Wavelength	λ <sub>p</sub>		470		nm	
Dominant Wavelength	λ <sub>D</sub>	465	470	475	nm	
Spectral Line Half-Width	Δλ		45		nm	
Forward Voltage	V <sub>F</sub>	2.9	3.1	3.4	V	
Power Dissipation	P <sub>d</sub>			85	mW	
Peak Forward Current (Duty 1/10 @ 1kHz)	IF (Peak)			100	mA	
Recommended Operating Current	IF (Rec)		20		mA	

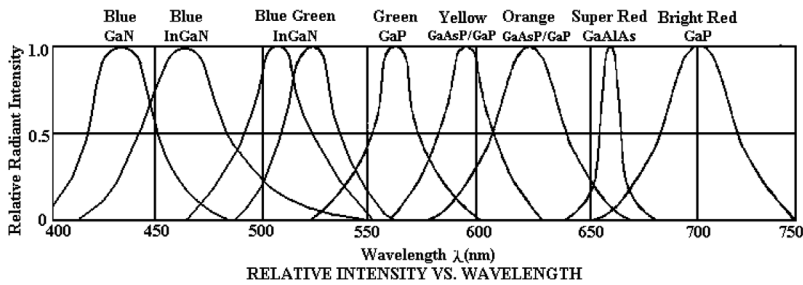
## Absolute Maximum Ratings (T<sub>A</sub> = 25°C)

Reverse Voltage	: 5 Volt
Reverse Current	: 10μA (V <sub>R</sub> = 5V)
Electrostatics Discharge (ESD)	: 200 Volt
Operating Temperature Range	: -40°C to +85°C
Storage Temperature Range	: -40°C to +100°C
Lead Soldering Temperature Range	: 260°C For 5 Seconds (1.6mm (1/16 inch) from body)

## Typical Electro-Optical Characteristics Curves

Super Blue (InGaN λ<sub>P</sub> = 470nm)

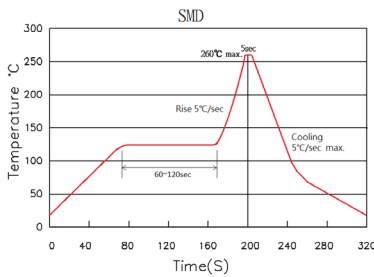




## Soldering

Recommended soldering condition as shown below:

### Reflow Temperature/Time (SMD)

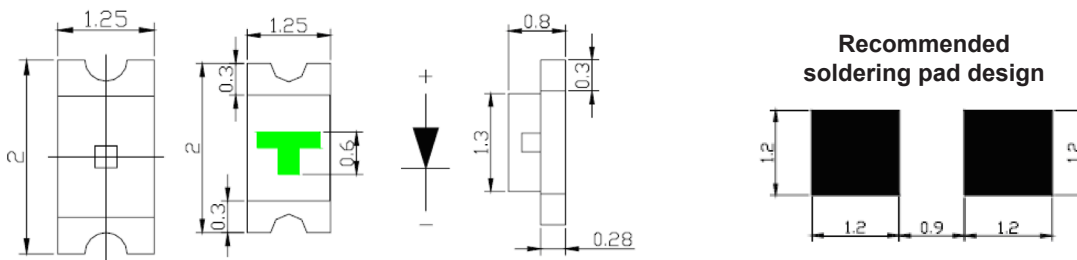


### Soldering Iron

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

## Diagram



Dimensions : Millimetres

## Part Number Table

Description	Part Number
0805 SMD Chip LED, Super Blue, Water Clear Lens, 120°	MP000442

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