

**RoHS
Compliant**



Specifications

Dice Material	: InGaN
Emitted Colour	: Ultra Green
Lens Colour	: Water Clear
Peak Wavelength	: 525nm
Viewing Angle	: 130 Deg.
Luminous Intensity (IV)	: 800mcd

Electrical / Optical Characteristics at T_A = 25°C

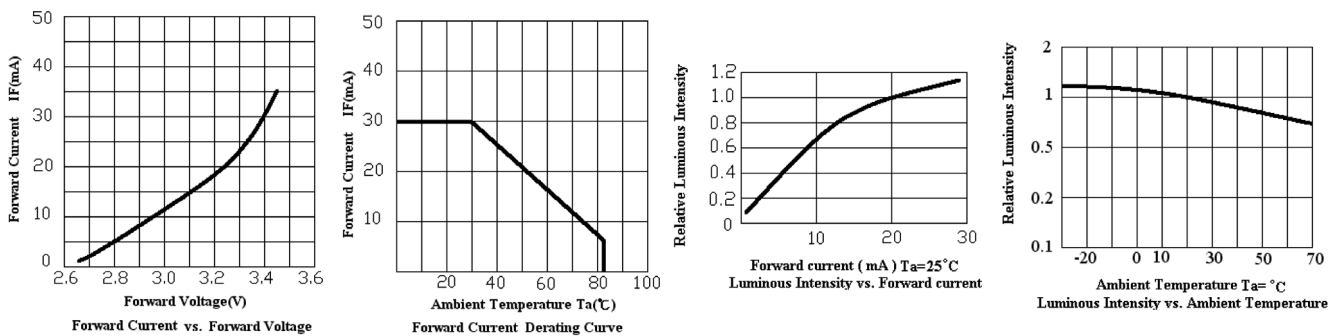
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test
Luminous Intensity	IV	600	800	1000	mcd	IF = 20mA
Viewing Angle	2θ1/2		130		Deg.	
Peak Emission Wavelength	λ _p		525		nm	
Dominant Wavelength	λ _D	517.5	525	527.5	nm	
Spectral Line Half-Width	Δλ		36		nm	
Forward Voltage	V _F	2.7	3.1	3.3	V	
Power Dissipation	P _d			85	mW	
Peak Forward Current (Duty 1/10 @ 1kHz)	IF (Peak)			100	mA	
Recommended Operating Current	IF (Rec)		20		mA	

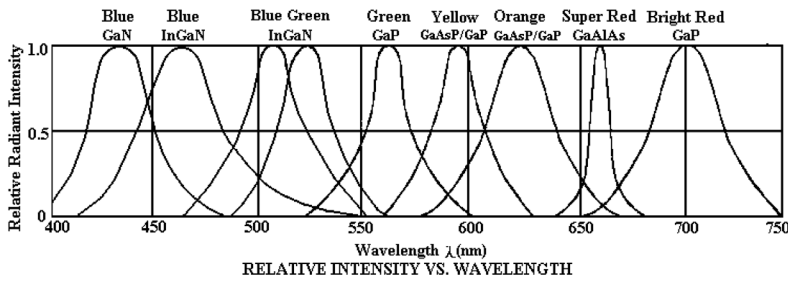
Absolute Maximum Ratings (T_A = 25°C)

Reverse Voltage	: 5 Volt
Reverse Current	: 10μA (V _R = 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

Ultra Green (InGaN λ_P = 525nm)

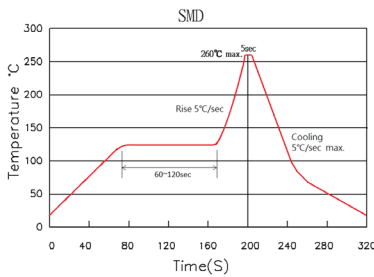




Soldering

Recommended soldering condition as shown below:

Reflow Temperature/Time (SMD)

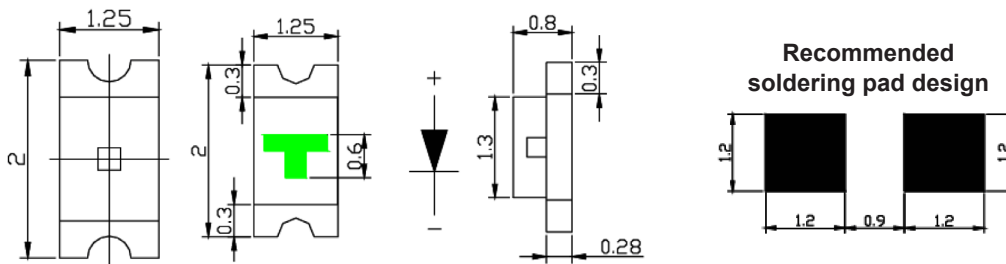


Soldering Iron

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 Ultra Green, Water Clear Lens, 130°	MP000443

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