

**RoHS
Compliant**



Specifications

Dice Material	: InGaN
Emitted Colour	: White
Lens Colour	: Water Clear
Viewing Angle	: 120 Deg.
Luminous Intensity (IV)	: 2050mcd

Electrical / Optical Characteristics at T_A = 25°C

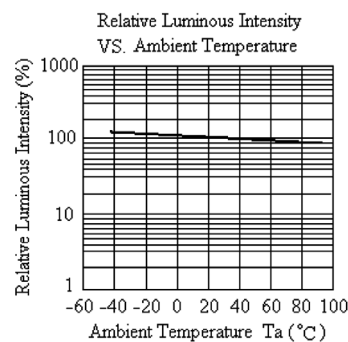
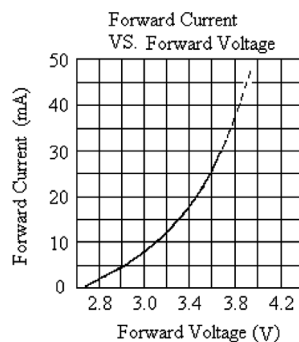
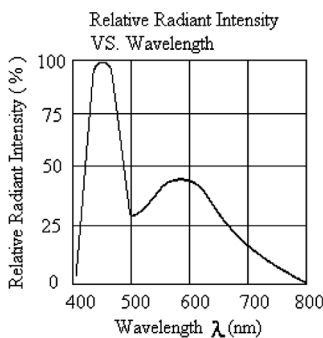
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test
Luminous Intensity	IV	1650	2050	2500	mcd	IF = 20mA
Viewing Angle	2θ1/2		120		Deg.	
Chromaticity Coordinate	X		0.345		nm	
Chromaticity Coordinate	Y		0.375		nm	
Forward Voltage	VF	2.9	3.2	3.6	V	
Power Dissipation	Pd			85	mW	
Peak Forward Current (Duty1/10 @ 1kHz)	IF (Peak)			100	mA	
Recommended Operating Current	IF (Rec)		20		mA	

Absolute Maximum Ratings (T_A = 25°C)

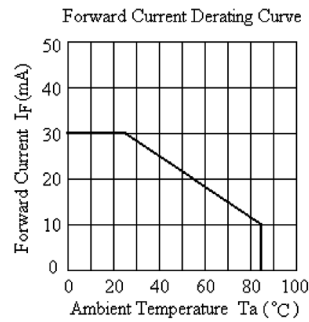
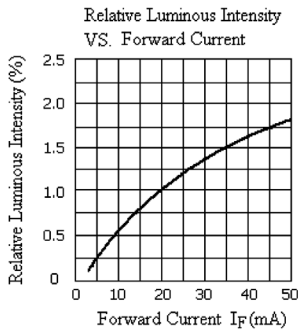
Reverse Voltage	: 5 Volt
Reverse Current	: 10µA (VR = 5V)
Electrostatics Discharge (ESD)	: 200 Volt
Operating Temperature Range	: -40°C to +85°C
Storage Temperature Range	: -40°C to +100°C
Lead Soldering Temperature Range	: 260°C For 5 Seconds (1.6mm (1/16 inch) from body)

Typical Electro-Optical Characteristics Curves

(T_A = 25°C Ambient temperature unless otherwise noted)



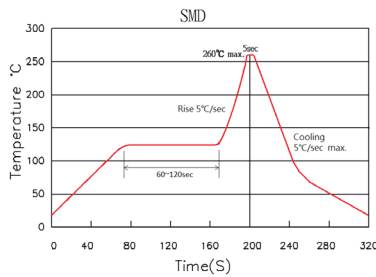
3.5mm × 2.8mm SMD LED White



Soldering

Recommended soldering condition as shown below:

Reflow Temperature/Time (SMD)

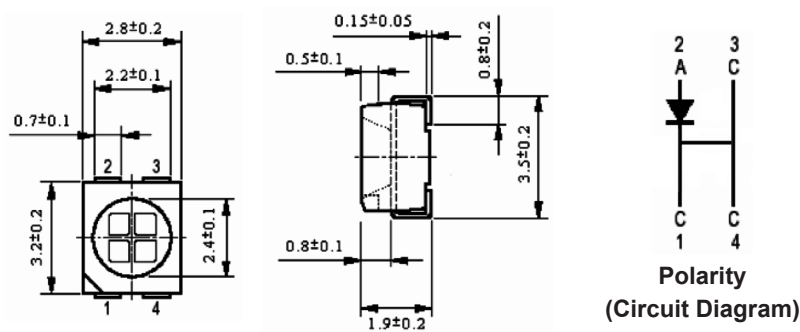


Soldering Iron

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
Tolerance: 0.2mm

Part Number Table

Description	Part Number
3.5mm × 2.8mm SMD LED, White, Water Clear Lens, 120°	MP000446

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