

Chip LED SMD

0603 White

multicomp **PRO**

RoHS
Compliant



Specifications

Dice Material	: InGaN
Emitted Colour	: White
Lens Colour	: Water Clear
Viewing Angle	: 120 Deg.
Luminous Intensity (IV)	: 1000 mcd

Electrical / Optical Characteristics at TA = 25°C

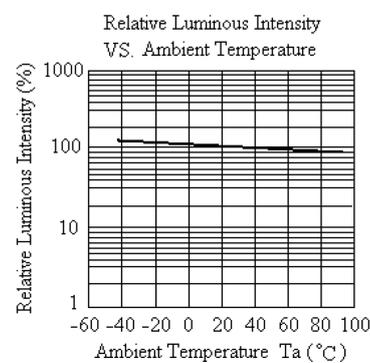
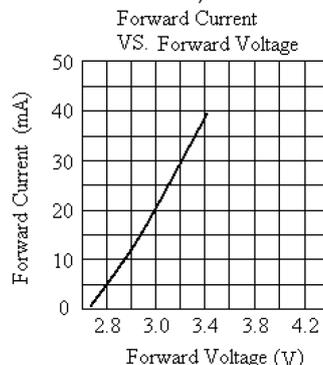
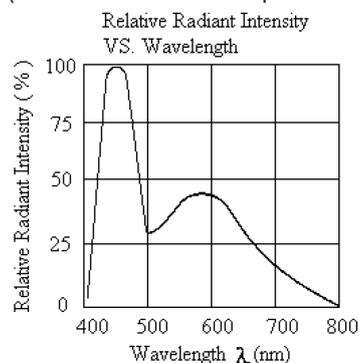
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test
Luminous Intensity	IV	900	1000	1200	mcd	IF = 20mA
Viewing Angle	2θ1/2		120		Deg.	
Chromaticity Coordinate	X		0.31			
Chromaticity Coordinate	Y		0.31			
Forward Voltage	VF	2.9	3.2	3.3	V	
Power Dissipation	Pd			85	mW	
Peak Forward Current (Duty1/10 @ 1kHz)	IF (Peak)			100	mA	
Recommended Operating Current	IF (Rec)			30	mA	

Absolute Maximum Ratings (TA = 25°C)

Reverse Voltage	: 5 Volt
Reverse Current	: 10µA (VR = 5V)
Electrostatics Discharge (ESD)	: 2000 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)

White Typical Electrical Optical Characteristics Curves

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

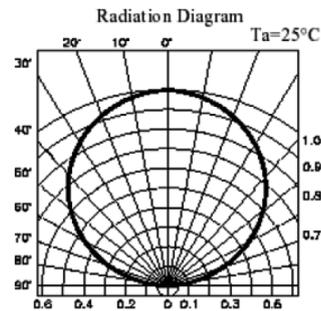
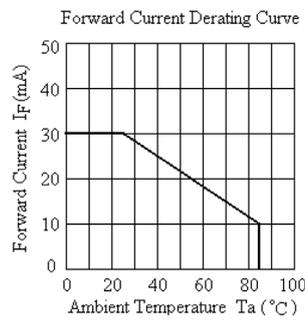
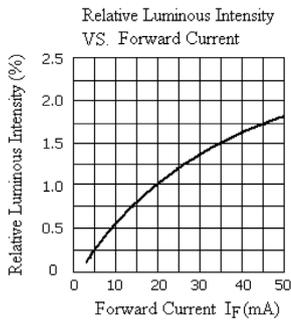


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Chip LED SMD 0603 White

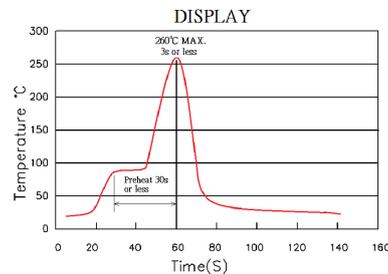
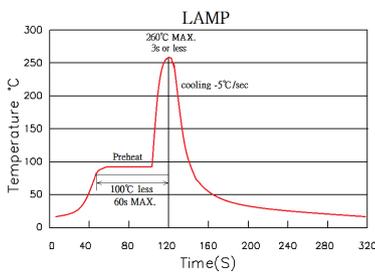
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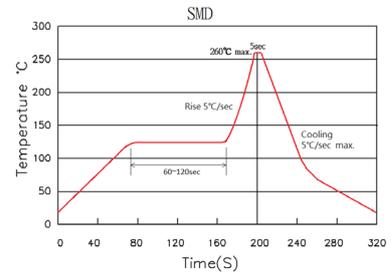
Soldering

Recommended soldering condition as shown below:

Soldering Heat (DIP)



Reflow Temperature/Time (SMD)

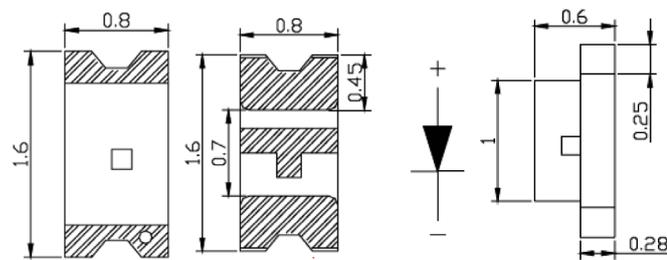


Soldering Iron

Temperature at tip of iron: 350°C Max.

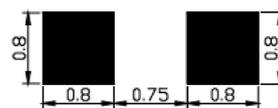
Soldering Time: 3 sec. \pm 1 sec. (one time only) If temperature is higher, time should be shorter

Diagram



Dimensions : Millimetres

Recommended soldering pad design



Part Number Table

Description	Part Number
Chip LED, 0603 SMD, White	MP000444

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