

# 3mm (T-1) Round LED Lamp White

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**RoHS  
Compliant**

## Specifications

Dice Material	: InGaN
Emitted Colour	: White
Lens Colour	: Water Clear
Viewing Angle	: 36 Deg.
Luminous Intensity (IV)	: 9000mcd.

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

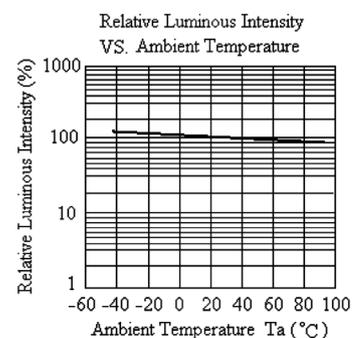
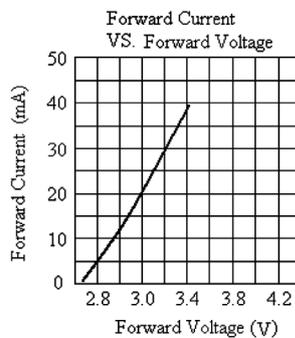
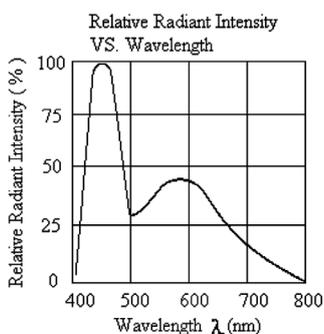
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test
Luminous Intensity	IV	7000	9000	15000	mcd	IF = 20mA
Viewing Angle	2θ1/2		36		Deg.	
Chromaticity Coordinate	X		0.29		nm	
Chromaticity Coordinate	Y		0.31		nm	
Forward Voltage	VF	2.8	3.2	3.5	V	
Power Dissipation	Pd			85	mW	
Peak Forward Current (Duty1/10 @ 1kHz)	IF (Peak)			100	mA	
Recommended Operating Current	IF (Rec)		20		mA	

## Absolute Maximum Ratings (T<sub>A</sub> = 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<sub>A</sub> = 25°C Ambient Temperature unless otherwise noted)

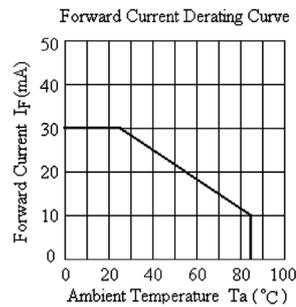
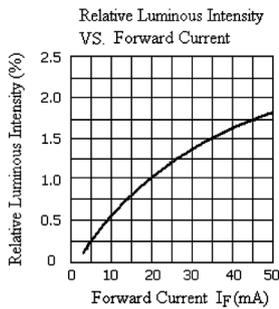


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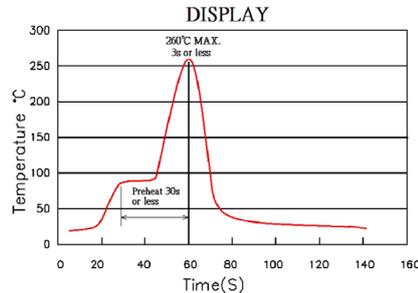
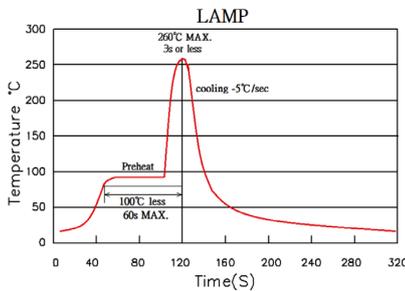
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## Soldering

Recommended soldering condition as shown below:

### Soldering heat (DIP)

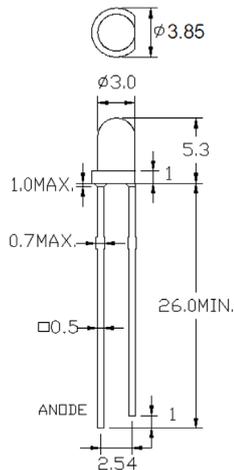


### Soldering Iron

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  
Tolerance:  $\pm 0.25$ mm

## Part Number Table

Description	Part Number
3mm (T-1) Round LED Lamp, White, Water Clear Lens, 36°	MP000435

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