

5mm (T-1 3/4) Round Type LED Lamp White

multicomp PRO



**RoHS
Compliant**

Specifications

Dice Material	: InGaN
Emitted Colour	: White
Lens Colour	: Water Clear
Viewing Angle	: 16 Deg.
Luminous Intensity (IV)	: 25000mcd

Electrical / Optical Characteristics at $T_A = 25^\circ\text{C}$

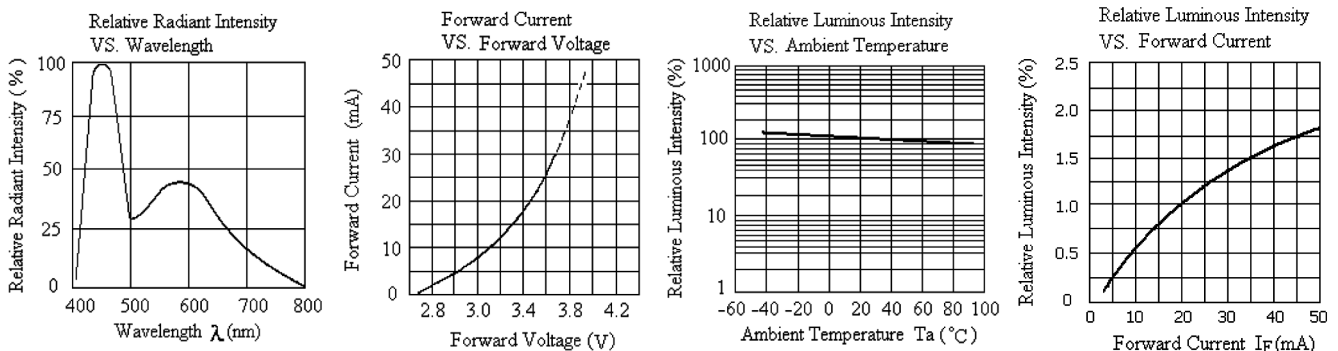
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test
Luminous Intensity	IV	16500	25000	32000	mcd	IF = 20mA
Viewing Angle	$2\theta_{1/2}$		16		Deg.	
Chromaticity Coordinate	X		0.3		nm	
Chromaticity Coordinate	Y		0.3		nm	
Forward Voltage	VF	2.8	3.2	3.6	V	
Power Dissipation	Pd			85	mW	
Peak Forward Current (Duty 1/10 @ 1kHz)	IF (Peak)			100	mA	
Recommended Operating Current	IF (Rec)		20		mA	

Absolute Maximum Ratings ($T_A = 25^\circ\text{C}$)

Reverse Voltage	: 5 Volt
Reverse Current	: $10\mu\text{A}$ ($V_R = 5\text{V}$)
Electrostatics Discharge (ESD)	: 200 Volt
Operating Temperature Range	: -40°C to $+85^\circ\text{C}$
Storage Temperature Range	: -40°C to $+100^\circ\text{C}$
Lead Soldering Temperature Range	: 260°C For 5 Seconds (1.6mm (1/16 inch) from body)

Typical Electro-Optical Characteristics Curves

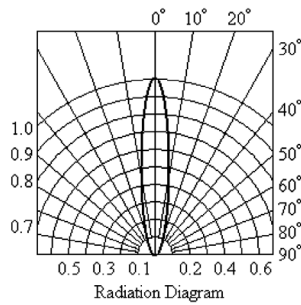
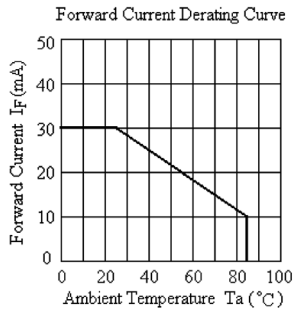
($T_A = 25^\circ\text{C}$ Ambient temperature unless otherwise noted)



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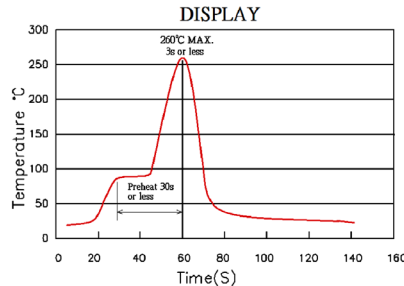
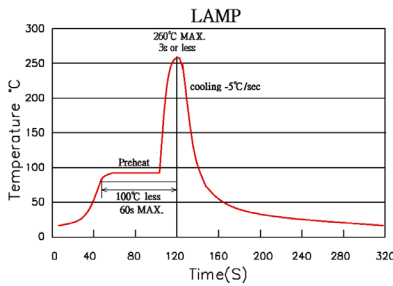
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Soldering

Recommended soldering condition as shown below:

Soldering heat (DIP)

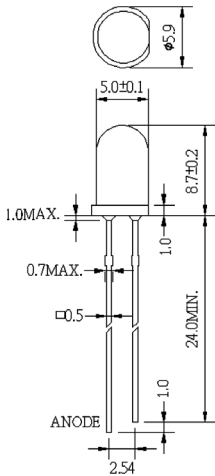


Soldering Iron

Temperature at tip of iron: 350°C Max.

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

Diagram



Dimensions : Millimetres
Tolerance: $\pm 0.25 \text{ mm}$

Part Number Table

Description	Part Number
5mm (T-1 3/4) Round Type LED Lamp, White, Water Clear Lens, 16°	MP000437

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