

5mm (T-1 3/4) Round Type Narrow Angle LED Lamp Ultra Orange Red

multicomp PRO



**RoHS
Compliant**

Specifications

Dice Material	: AlInGaP
Emitted Colour	: Ultra Orange Red
Lens Colour	: Water Clear
Peak Wavelength	: 635nm
Viewing Angle	: 15 Deg.
Luminous Intensity (IV)	: 17000mcd

Electrical / Optical Characteristics at TA = 25°C

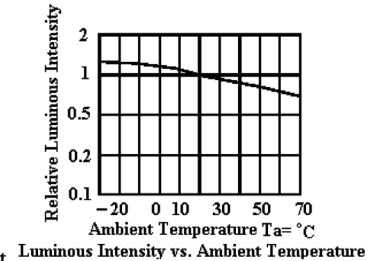
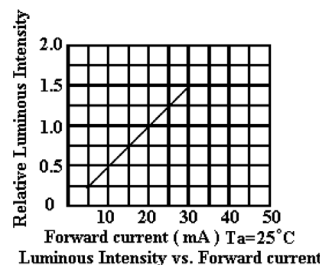
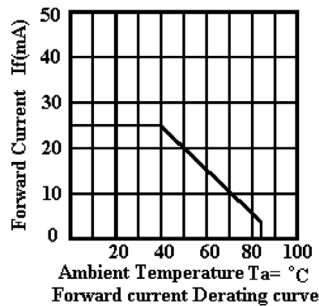
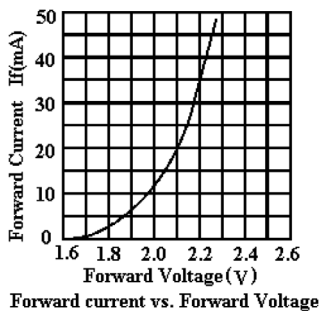
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test
Luminous Intensity	IV	12000	17000	20000	mcd	IF = 20mA
Viewing Angle	2θ1/2		15		Deg.	
Peak Emission Wavelength	λp		635		nm	
Dominant Wavelength	λD	620	625	630	nm	
Spectral Line Half-Width	Δλ		17		nm	
Forward Voltage	VF	1.7	2.1	2.6	V	
Power Dissipation	Pd			85	mW	
Peak Forward Current (Duty 1/10 @ 1kHz)	IF (Peak)			100	mA	
Recommended Operating Current	IF (Rec)		20		mA	

Absolute Maximum Ratings (TA = 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

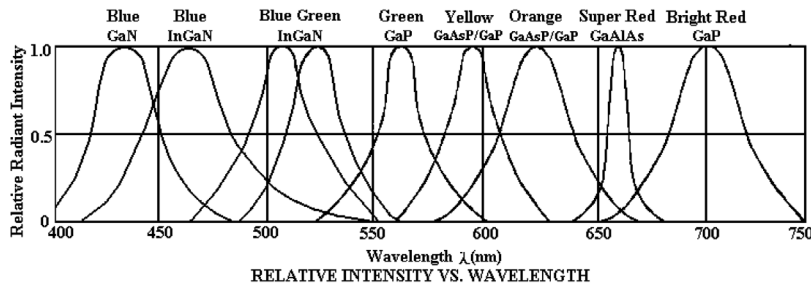
Ultra Orange (AlInGaP λP = 635nm)



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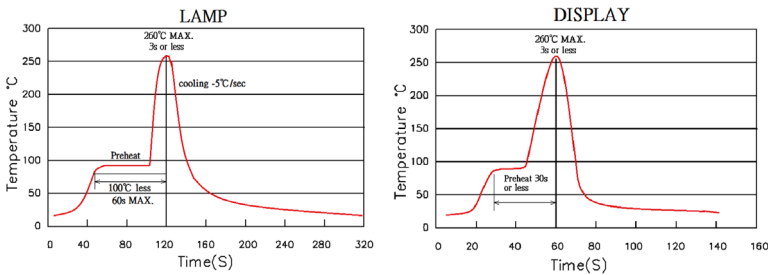
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Soldering

Recommended soldering condition as shown below:

Soldering heat (DIP)

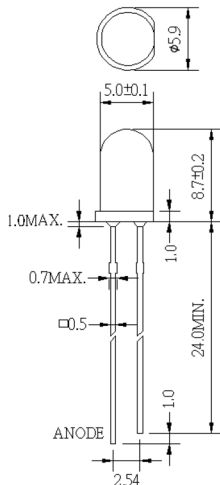


Soldering Iron

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 0.25mm

Part Number Table

Description	Part Number
5mm (T-1 3/4) Round Type Narrow Angle LED Lamp, Ultra Orange Red, Water Clear Lens, 16°	MP000440

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