

3mm (T-1) Round LED Lamp Ultra Red

multicomp PRO

**RoHS
Compliant**



Specifications

Dice Material	: AlInGaP
Emitted Colour	: Ultra Red
Lens Colour	: Red Transparent
Peak Wavelength	: 653nm
Viewing Angle	: 36 Deg.
Luminous Intensity (IV)	: 500mcd

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

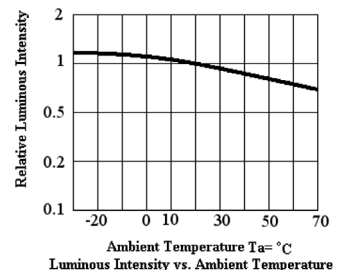
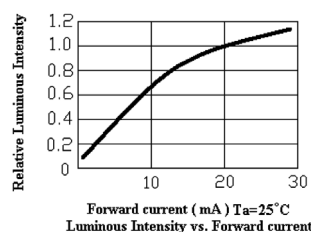
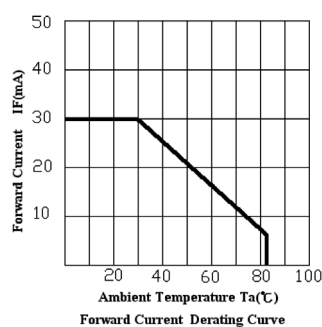
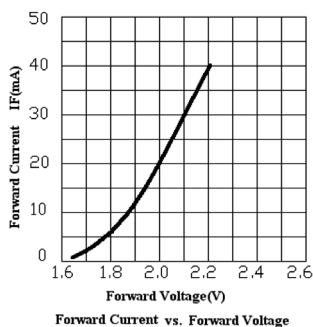
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test
Luminous Intensity	IV	350	500	750	mcd	IF = 20mA
Viewing Angle	$2\theta_{1/2}$		36		Deg.	
Peak Emission Wavelength	λ_p		653		nm	
Dominant Wavelength	λ_D	632	637	642	nm	
Spectral Line Half-Width	$\Delta\lambda$		19		nm	
Forward Voltage	VF	1.7	1.9	2.4	V	
Power Dissipation	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	: $10\mu\text{A}$ ($V_R = 5\text{V}$)
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

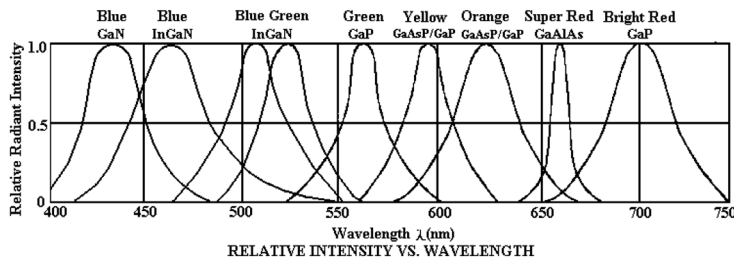
Ultra Red (AlInGaP $\lambda_p = 653\text{nm}$)



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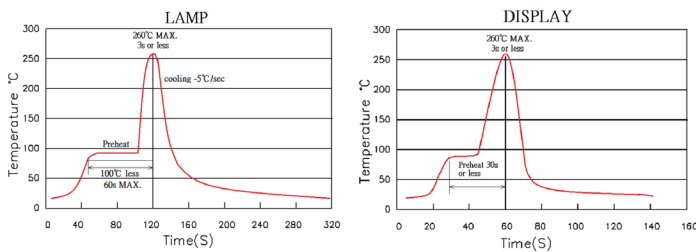
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Soldering

Recommended soldering condition as shown below:

Soldering heat (DIP)

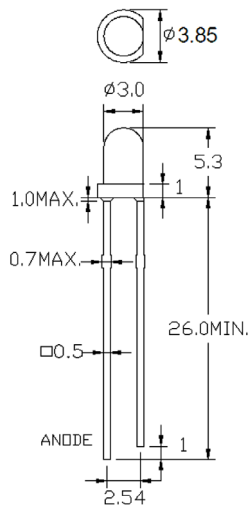


Soldering Iron

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: 0.25mm

Part Number Table

Description	Part Number
3mm (T-1) Round LED Lamp, Super Red, Red Transparent Lens, 30°	MP000451

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