

# 3mm (T-1) Round LED Lamp Super Red

**multicomp** PRO



**RoHS  
Compliant**

## Specifications

Dice Material	: GaAlAs
Emitted Colour	: Super Red
Lens Colour	: Red Transparent
Peak Wavelength	: 660nm
Viewing Angle	: 30 Deg.
Luminous Intensity (IV)	: 500mcd

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

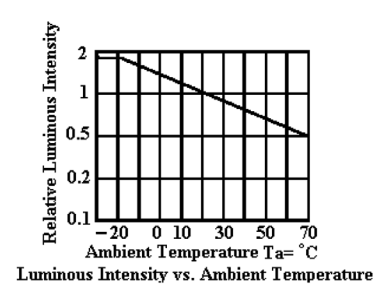
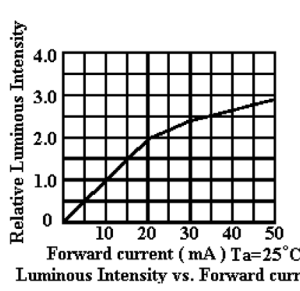
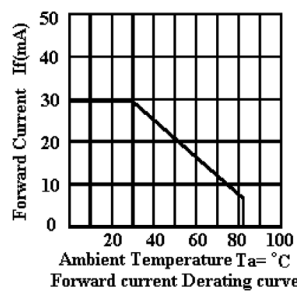
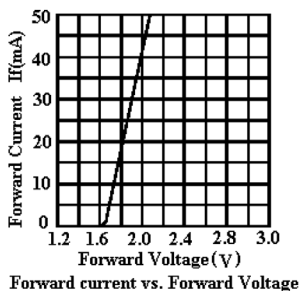
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test
Luminous Intensity	IV	350	500	700	mcd	IF = 20mA
Viewing Angle	$2\theta_{1/2}$		30		Deg.	
Peak Emission Wavelength	$\lambda_p$		660		nm	
Dominant Wavelength	$\lambda_D$		643		nm	
Spectral Line Half-Width	$\Delta\lambda$		20		nm	
Forward Voltage	V <sub>F</sub>	1.7	1.85	2	V	
Power Dissipation	P <sub>d</sub>			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 $\mu$ A (V <sub>R</sub> = 5V)
Operating Temperature Range	: -40 $^\circ$ C to +85 $^\circ$ C
Storage Temperature Range	: -40 $^\circ$ C to +100 $^\circ$ C
Lead Soldering Temperature Range	: 260 $^\circ$ C For 5 Seconds (1.6mm (1/16 inch) from body)

## Typical Electro-Optical Characteristics Curves

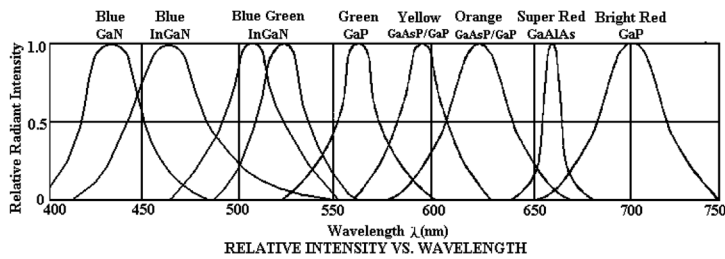
Super Red (GaAlAs)  $\lambda_p = 660\text{nm}$



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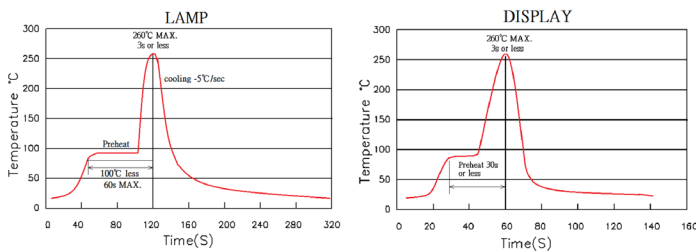
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## Soldering

Recommended soldering condition as shown below:

### Soldering heat (DIP)

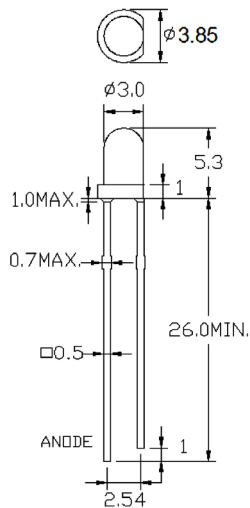


### Soldering Iron

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°	MP000450

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