

# Tower LED Yellow, 1.8mm

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## Specifications

Dice Material	: GaAsP on GaP
Emitted colour	: Yellow
Lens Colour	: Yellow Diffused
Peak wavelength	: 587nm
Viewing angle	: 70°
Luminous intensity (IV)	: 18mcd
Storage Temperature	: +5°C to +30°C, RH 60% or less

RoHS  
Compliant

## Electrical / Optical Characteristics at TA = 25°C

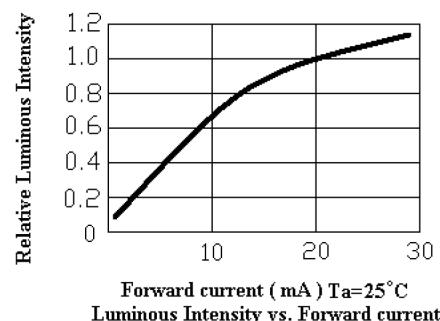
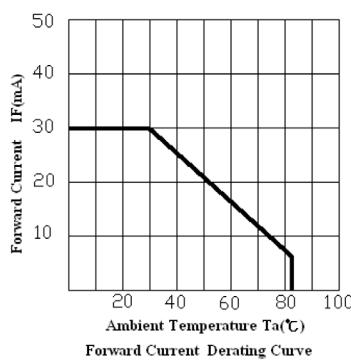
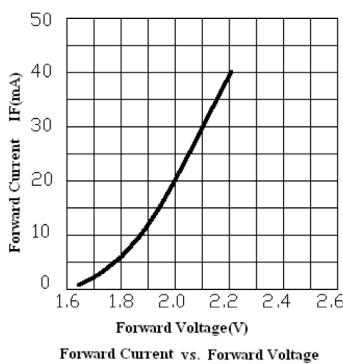
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test
Luminous Intensity	IV	12	18	25	mcd	IF = 20mA
Viewing Angle	2θ1/2	-	70	-	deg	
Peak Emission Wavelength	λp	-	587	-	nm	
Dominant Wavelength	λD	585	590	595	nm	
Spectral Line Half-Width	Δλ	-	35	-	nm	
Forward Voltage	VF	1.7	2	2.6	V	
Power Dissipation	Pd	-	-	85	mW	mA
Peak Forward Current (Duty 1/10 @ 1kHz)	IF (Peak)	-	-	100	-	
Recommended Operating Current	IF (Rec)	-	20	-	-	

## Absolute Maximum Ratings at TA = 25°C

Reverse Voltage	5 Volt
Reverse Current	10µA (VR=5V)
Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	-40°C to +100°C
Lead Soldering Temperature Range (1.6 mm (1/16 inch) from body)	260°C for 5 Seconds

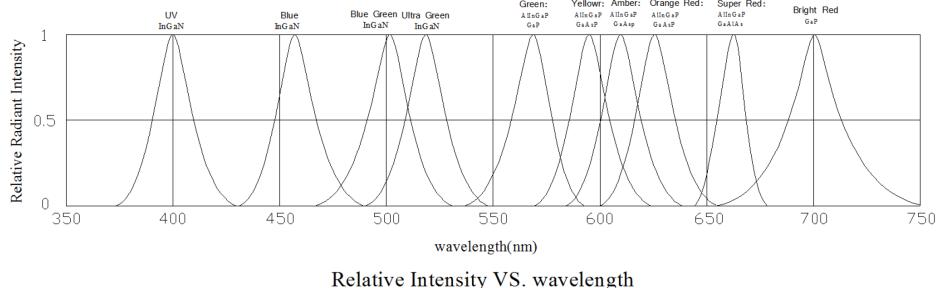
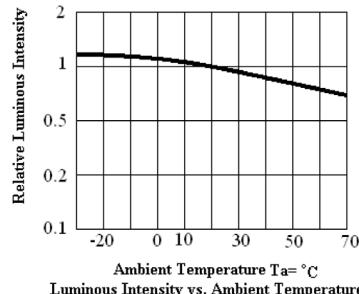
## Typical Electro-Optical Characteristics Curves

Yellow (GaAsP/GaP λP=587nm)



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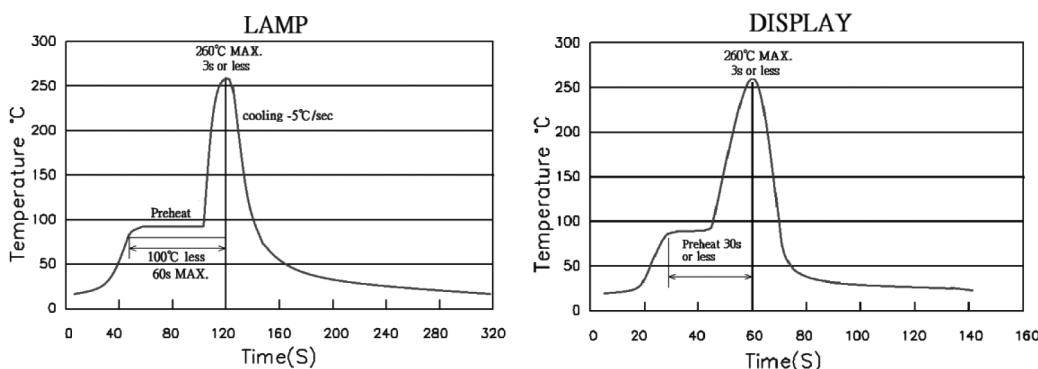
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## Soldering

Recommended soldering condition as shown below:

### Soldering heat (DIP)



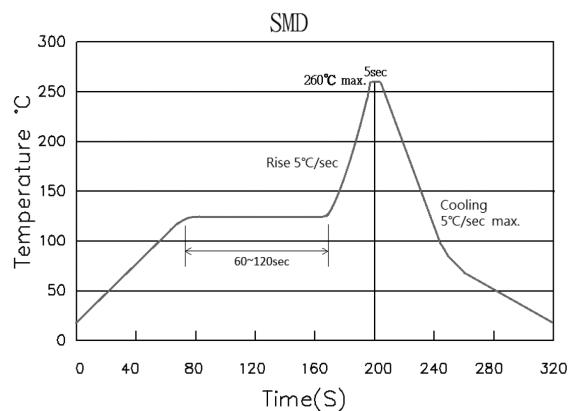
### Soldering Iron

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

### Reflow Temp./Time(SMD)



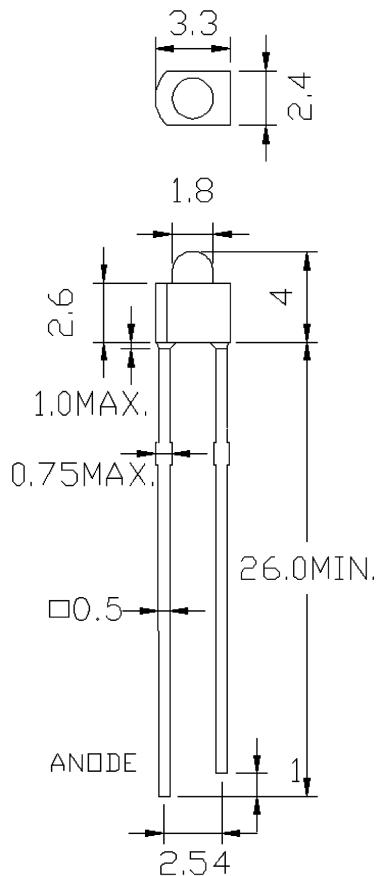
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## Diagram



## Part Number Table

Description	Part Number
1.8mm Tower LED, Yellow, 570mm, 70°, Through hole	MP007991

Dimensions : Millimetres

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