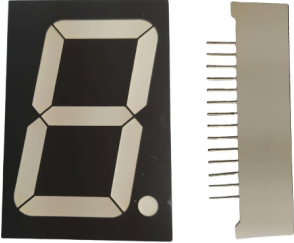


## 2.3" Single Digit Full Colour Common Anode 7 Segment LED Display

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**RoHS  
Compliant**



### Specifications

Dice Material	: AlInGaP / InGaN / InGaN
Emitted Colour	: Super Orange Red / Ultra Green / Super Blue
Epoxy Colour	: White Diffused
Peak Wavelength	: 635nm / 525nm / 470nm
Surface Ink Colour	: Black
Luminous Intensity (IV)	: 20mcd / 25mcd / 18mcd

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

Parameter	Symbol	Min.	Typ. R/G/B	Max.	Unit	Test
Luminous Intensity	IV	15/20/14	20/25/18	25/30/22	mcd	IF = 20mA
Viewing Angle	2θ1/2	-	-	-	Deg.	
Peak Emission Wavelength	λp		635/525/470		nm	
Dominant Wavelength	λD	620/517/464	625/525/467	630/530/472	nm	
Spectral Line Half-Width	Δλ		45/36/40		nm	
Forward Voltage	VF*	1.8/2.8/2.8	2/3.1/3.1	2.4/3.5/3.5	V	
Reverse Current	I <sub>r</sub>	-	-	10	μA	VR=5V

▲ Luminous intensity (IV) ±10%, Forward Voltage (VF) ±0.1V, Wavelength (λd) ±0.5nm

\* Forward Voltage For One Chip

### Absolute Maximum Ratings (TA = 25°C)

Parameter	Symbol	Rating
Power Dissipation	Pd	85mW
Peak Forward Current (Duty 1/10 @ 1kHz)	IF (Peak)	100mA
Recommended Operating Current	IF (Rec)	30mA
Electrostatic Discharge	ESDHBM	200V
Operating Temperature Range	T <sub>OPR</sub>	-40°C to +85°C
Storage Temperature Range	T <sub>STG</sub>	-40°C to +100°C
Lead Soldering Temperature Range (1.6mm (1/16 inch) from body)		Reflow Soldering : 260°C for 5 sec. Hand Soldering : 350°C for 3 sec.

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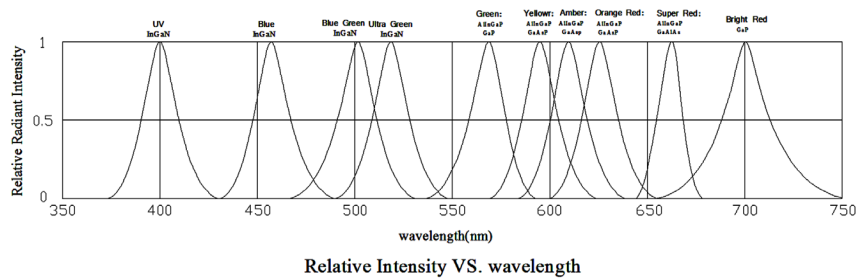
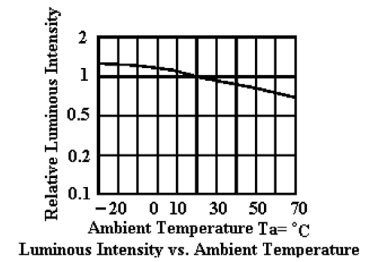
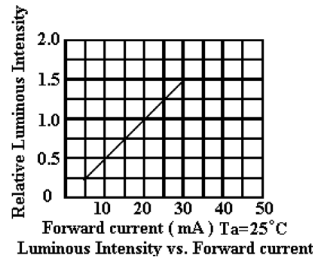
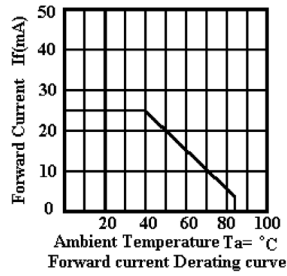
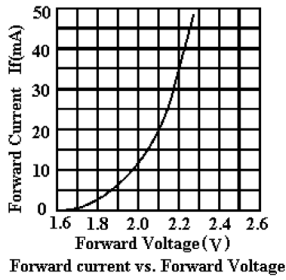
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# 2.3" Single Digit Full Colour Common Anode 7 Segment LED Display

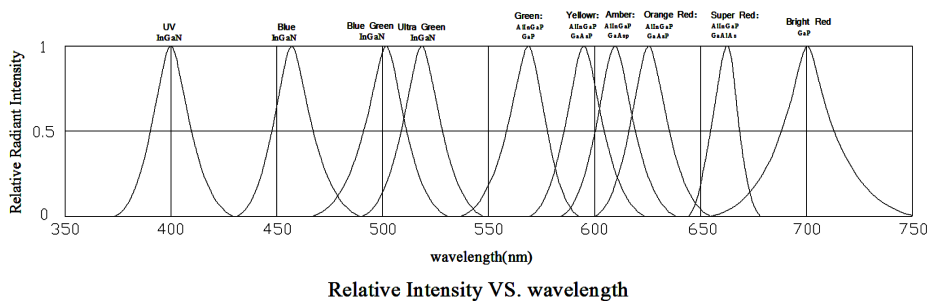
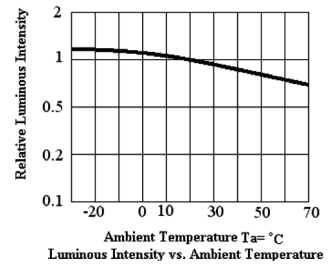
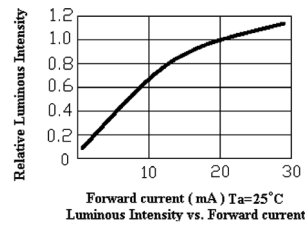
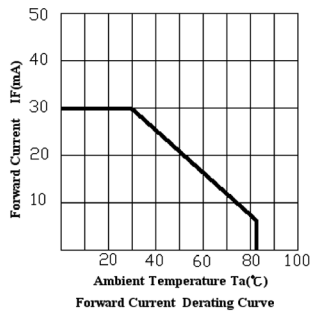
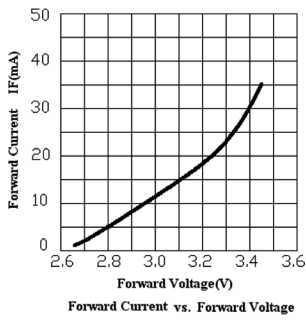


## Typical Electro-Optical Characteristics Curves

Super Orange (AlInGaP  $\lambda_P = 635\text{nm}$ )



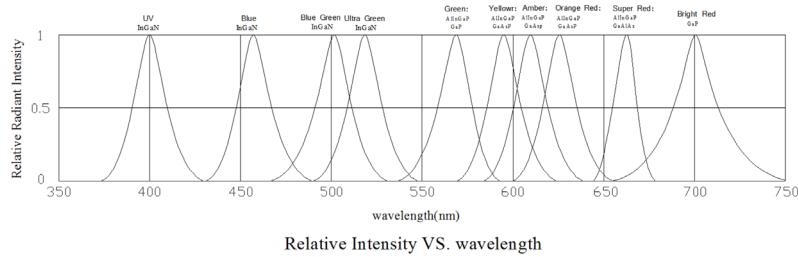
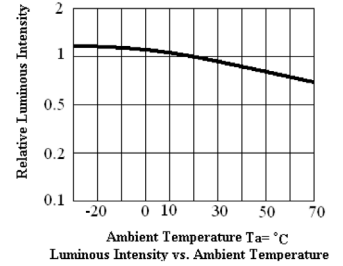
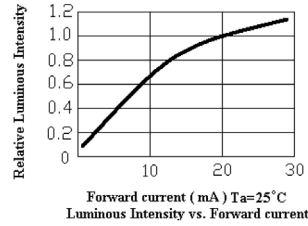
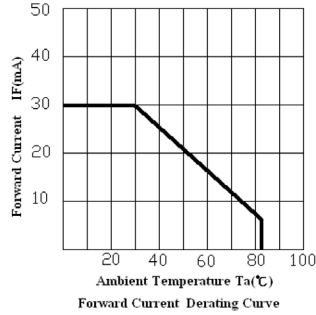
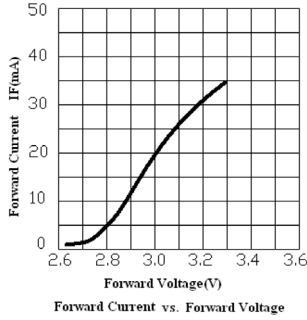
Ultra Green (InGaN  $\lambda_P = 525\text{nm}$ )



# 2.3" Single Digit Full Colour Common Anode 7 Segment LED Display



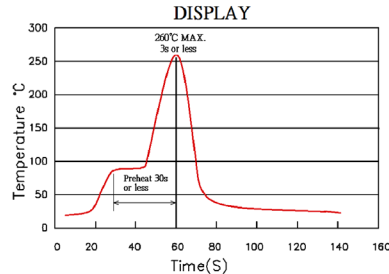
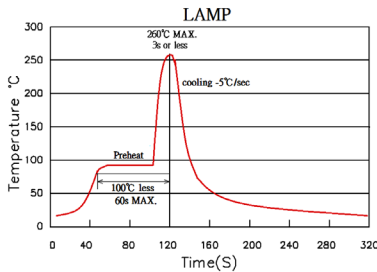
## Super Blue (InGaN $\lambda_P = 470\text{nm}$ )



## Soldering

Recommended soldering condition as shown below:

### Soldering heat (DIP)

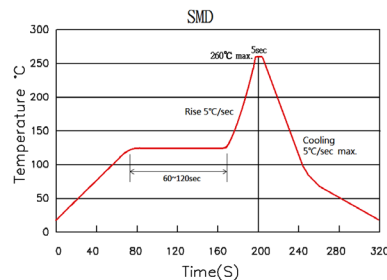


### Soldering Iron

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)



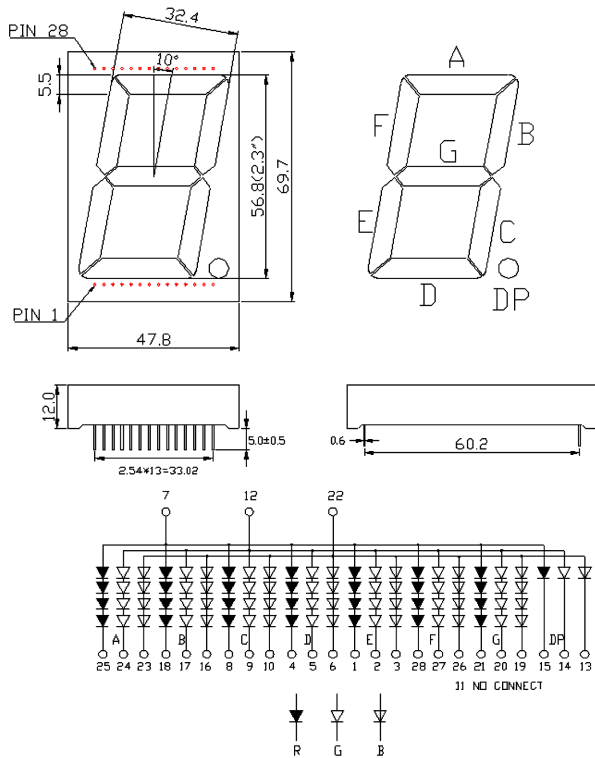
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# 2.3" Single Digit Full Colour Common Anode 7 Segment LED Display



## Diagram



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

## Part Number Table

Description	Part Number
7 Segment LED Display, Single Digit, 2.3", Common Anode	MP005916

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