

RoHS  
Compliant

## Specifications

Dice material : AlGaInP/GaAs  
Emmiting Colour : Yellow  
Lens colour : Water clear  
Peak wavelength : 591nm  
Viewing angle : 130°  
Luminous intensity (IV) : 50mcd

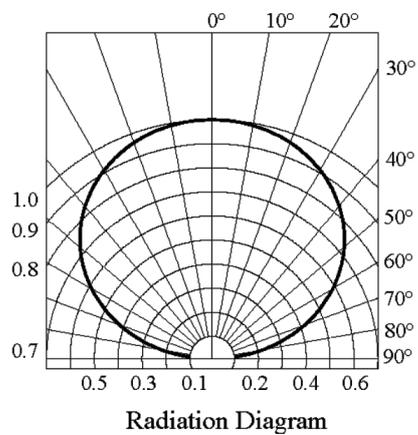
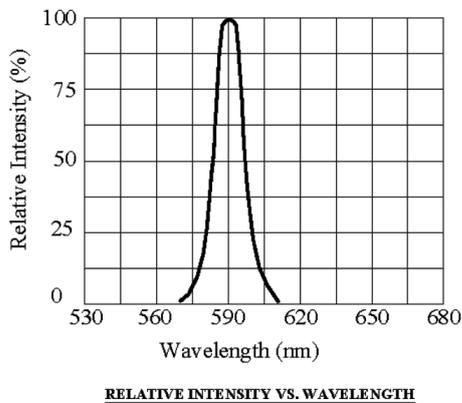
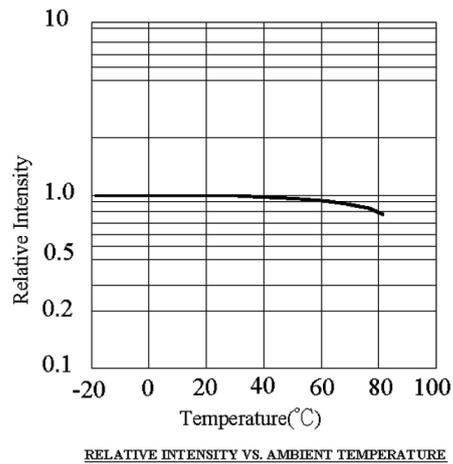
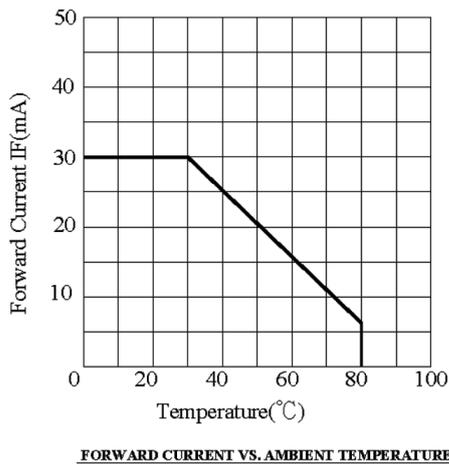
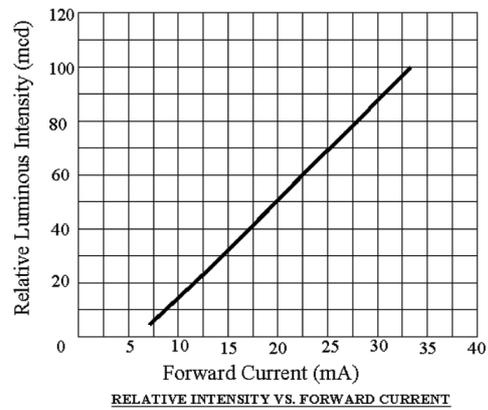
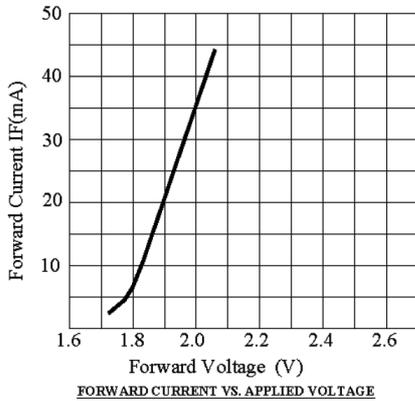
## Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Power Dissipation	PD	72	mW
D.C Forward current	If	30	mA
Reverse Voltage	Vr	5	V
Operating Temperature	Top	-30 to +80	°C
Storage Temperature	Tstg.	-40 to +85	°C
Peak Current (1/10Duty Cycle, 0.1ms Pulse Width.)	If (peak)	80	mA
Soldering Temperature	Tsol	Reflow Soldering: 260°C for 10 sec.	

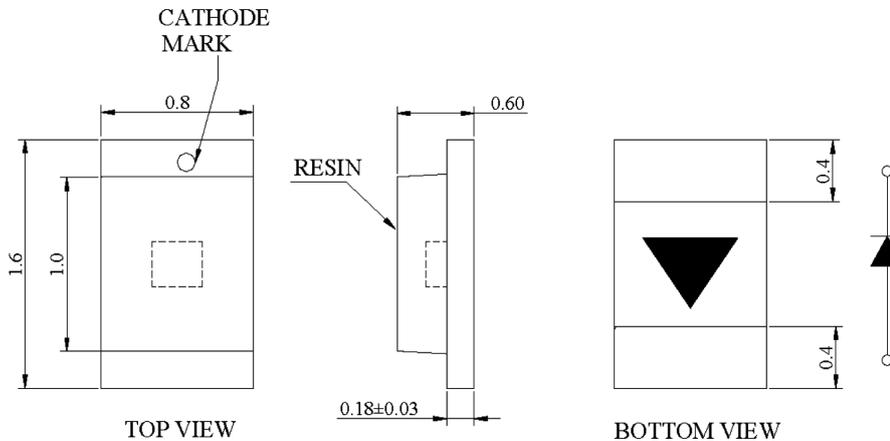
## Electrical and Optical Characteristics

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If=20mA	24.4	50		mcd
Forward Voltage	Vf	If=20mA	1.8		2.4	V
Peak Wavelength	$\lambda_p$	If=20mA		591		nm
Dominant Wavelength	$\lambda_d$	If=20mA		589		nm
Reverse Current	Ir	Vr=5V			100	$\mu$ A
Viewing Angle	2 $\theta$ 1/2	If=20mA		130		deg
Spectrum Line Halfwidth	$\Delta\lambda$	If=20mA		15		nm

**Typical Electrical/Optical Characteristic Curves:**  
 (25°C Ambient Temperature Unless Otherwise Noted)



## Dimensions



Tolerance is ±0.1mm unless otherwise noted.

Dimensions : Millimetres

## Precautions in use:

### Soldering

#### Reflow Soldering

Recommend use of upper and lower heater type reflow furnace.

260°C Max for up to 5 seconds, one time only.

Pre-heat is 150°C Max for up to 2 minutes Max.

In case of screen-printing, keep metal mask thickness between 0.2mm and 0.3mm.

### Cleaning

Surface condition of this device may change when organic solvents such as trichloroethylene or acetone were applied.

Avoid using organic solvent.

Recommend ultrasonic method 300W Max.

## Part Number Table

Description	Part Number
Chip LED, Yellow, 591nm, 130°, 50mcd, Surface Mount	MP008252

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