

# Rectangular LED

## Super Yellow, 2mm x 5mm

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**RoHS  
Compliant**

### Specifications

Dice Material	: AllnGaP
Emitted colour	: Super Yellow
Lens colour	: Yellow Diffused
Peak wavelength	: 590nm
Viewing angle	: 120°
Luminous intensity (IV)	: 100mcd

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	IV	80	100	150	mcd	IF = 20mA
Viewing Angle	2 $\theta$ 1/2		120		deg	
Peak Emission Wavelength	$\lambda_p$		590		nm	
Dominant Wavelength	$\lambda_D$	586	590	592	nm	
Spectral Line Half-Width	$\Delta\lambda$		20		nm	
Forward Voltage	VF	1.8	2	2.6	V	
Reverse Current	Ir	-	-	10	uA	VR=5V

▲ Luminous intensity (IV)  $\pm$ 10%, Forward Voltage (VF)  $\pm$ 0.1V, Wavelength ( $\lambda_D$ )  $\pm$ 0.5nm

### Absolute Maximum Ratings: (Ta = 25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	85	mW
Peak Forward Current ( Duty 1/10 @ 1KHZ )	IF (Peak)	100	mA
Recommended Operating Current	IF (Rec)	30	mA
Electrostatic Discharge	ESD <sub>HBM</sub>	2000	V
Operating Temperature Range	T <sub>OPR</sub>	-40 to +85	°C
Storage Temperature Range	T <sub>STG</sub>	-40 to +100	°C
Lead Soldering Temperature Range (1.6 mm (1/16 inch) from body)		Reflow Soldering: 260°C for 5 sec. Hand Soldering: 350°C for 3 sec.	

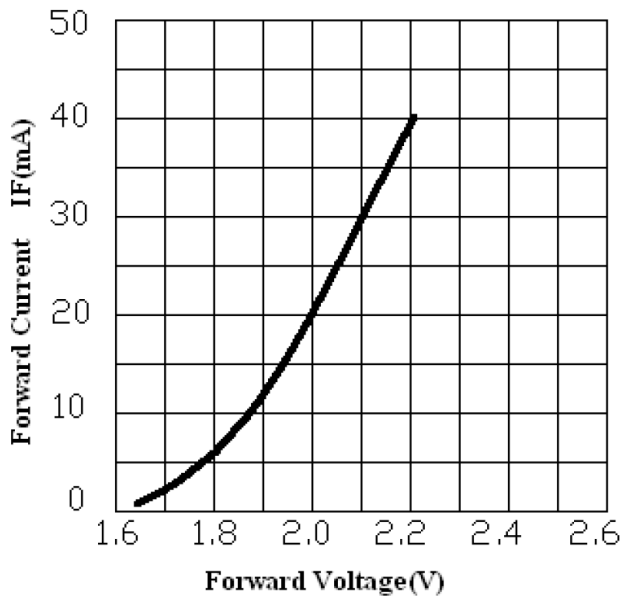
# Rectangular LED

## Super Yellow, 2mm x 5mm

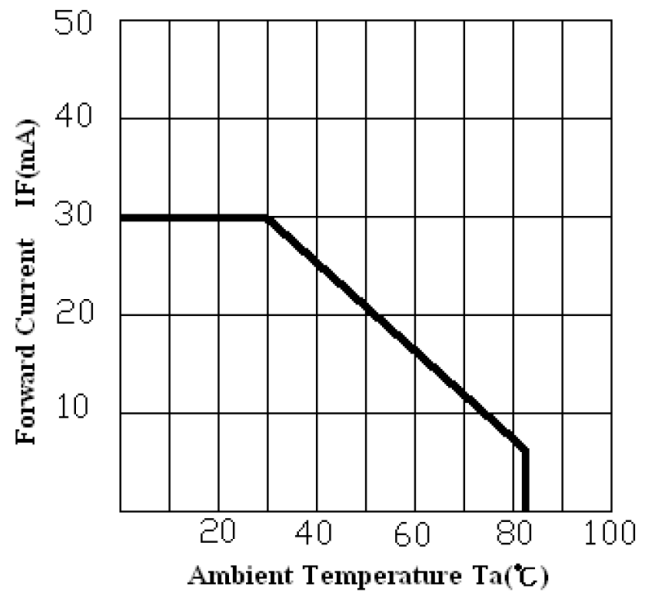
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### Typical Electro-Optical Characteristics Curves

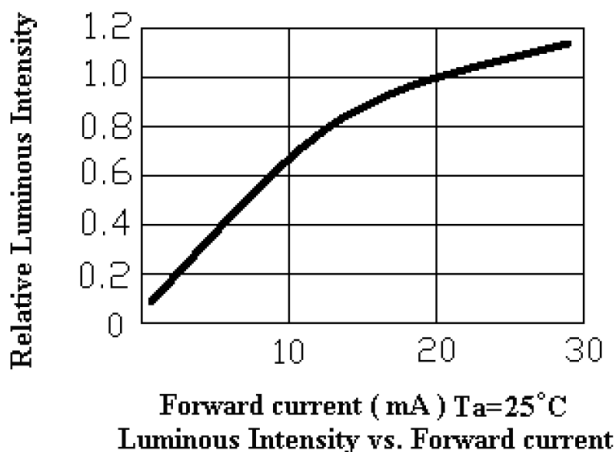
#### Super Yellow (AlInGaP $\lambda_P=590\text{nm}$ )



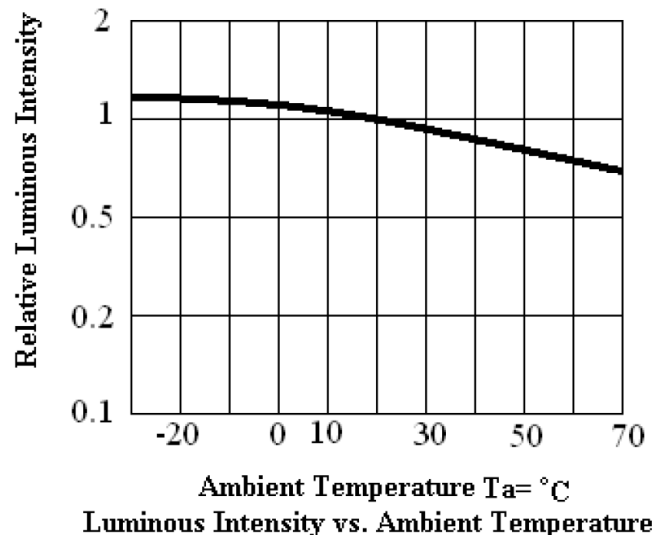
Forward Current vs. Forward Voltage



Forward Current Derating Curve



Luminous Intensity vs. Forward current

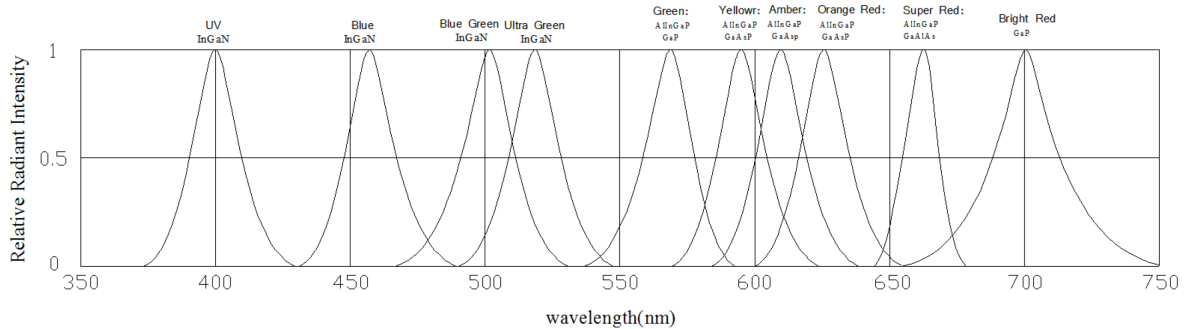


Luminous Intensity vs. Ambient Temperature

# Rectangular LED

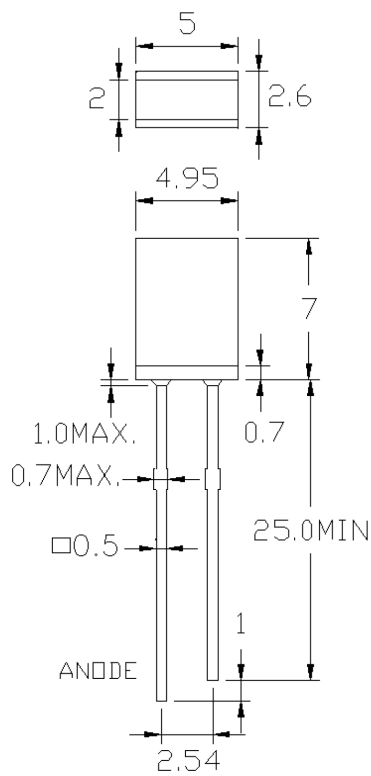
## Super Yellow, 2mm x 5mm

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Relative Intensity VS. wavelength

### Dimensions



Dimensions : Millimetres

### Part Number Table

Description	Part Number
Rectangular LED, Super Yellow, 590nm, 120°, 100mcd, Through hole	MP007952

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