

LED Light Bar

Super Yellow, 7mm x 10mm

multicomp PRO

**RoHS
Compliant**

Specifications

Dice Material : AlInGaP
Emitted colour : Super Yellow
Epoxy colour : Yellow Diffused
Surface Ink colour : No Ink
Peak wavelength : 590nm
Luminous intensity (IV) : 18mcd

Electrical / Optical Characteristics at Ta = 25°C						
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	IV	15	18	22	mcd	IF = 20mA
Viewing Angle	2θ1/2				deg	
Peak Emission Wavelength	λp		590		nm	
Dominant Wavelength	λD	586	590	592	nm	
Spectral Line Half-Width	Δλ		22		nm	
Forward Voltage	VF	1.8	2	2.6	V	
Reverse Current	I _r	-	-	10	uA	VR=5V

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

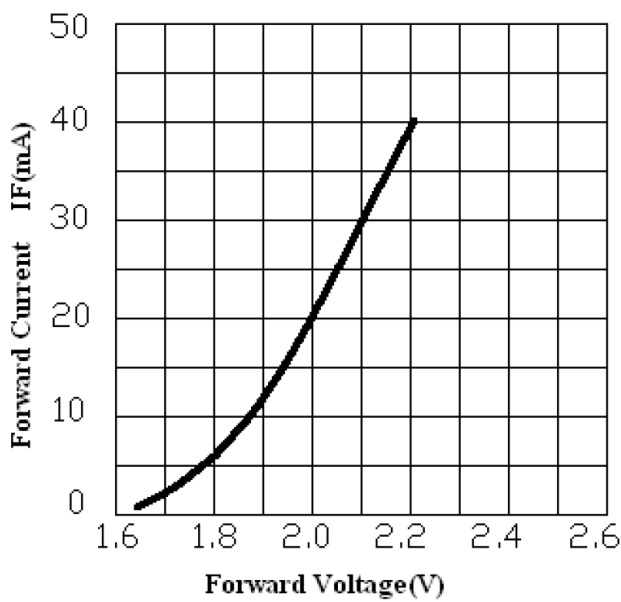
Absolute Maximum Ratings: (Ta = 25°C)			
Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	85	mW
Peak Forward Current (Duty 1/10 @ 1KHZ)	IF (Peak)	100	mA
Recommended Operating Current	IF (Rec)	30	mA
Electrostatic Discharge	ESD _{HBM}	2000	V
Operating Temperature Range	T _{OPR}	-40 to +85	°C
Storage Temperature Range	T _{STG}	-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.	

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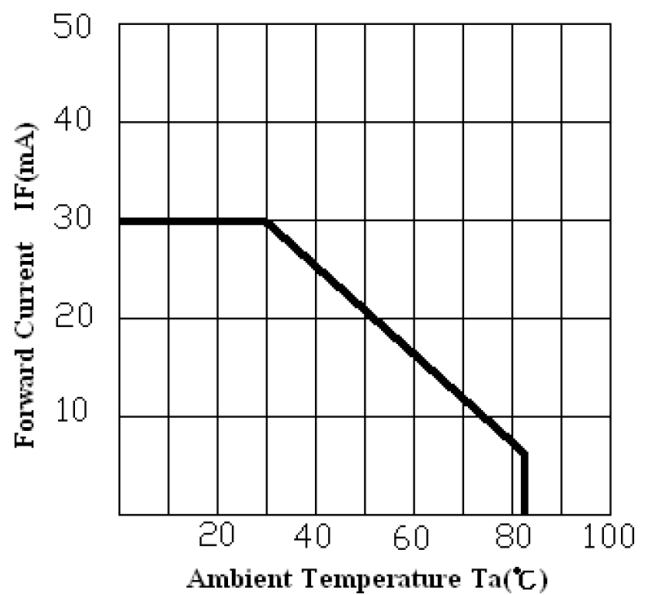
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Typical Electro-Optical Characteristics Curves

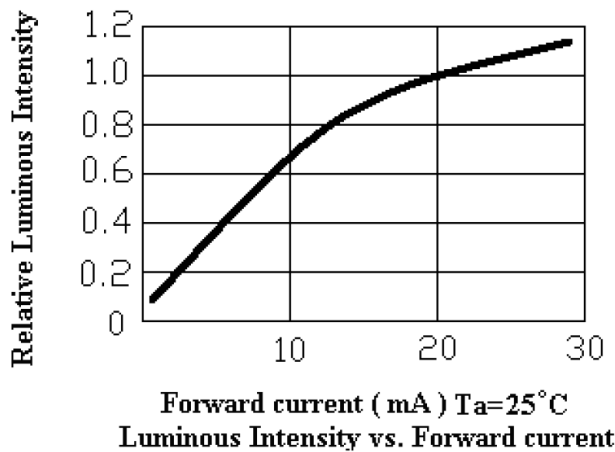
Super Yellow (AlInGaP $\lambda_P=590\text{nm}$)



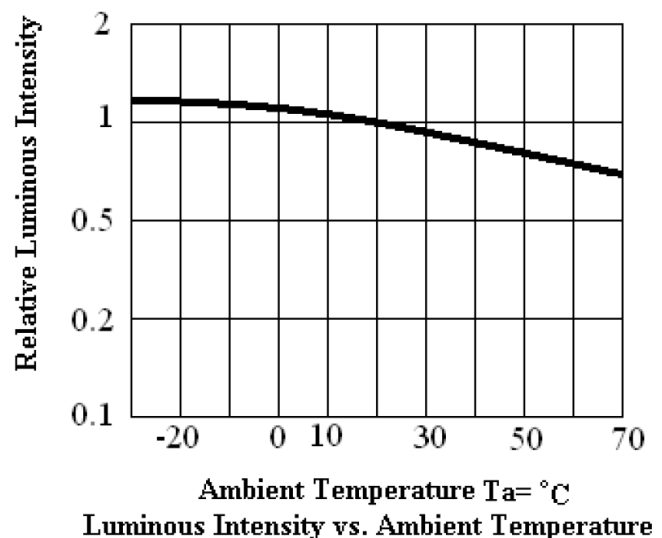
Forward Current vs. Forward Voltage



Forward Current Derating Curve



Luminous Intensity vs. Forward current

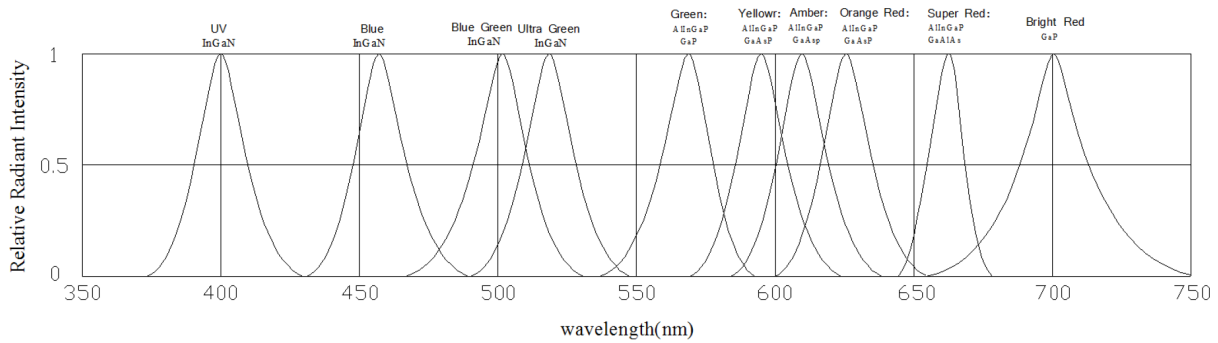


Luminous Intensity vs. Ambient Temperature

LED Light Bar

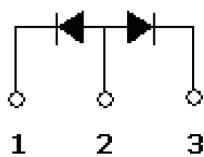
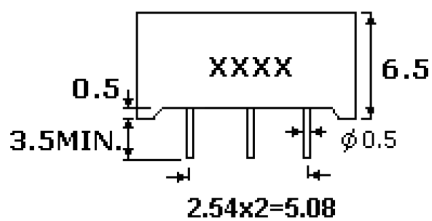
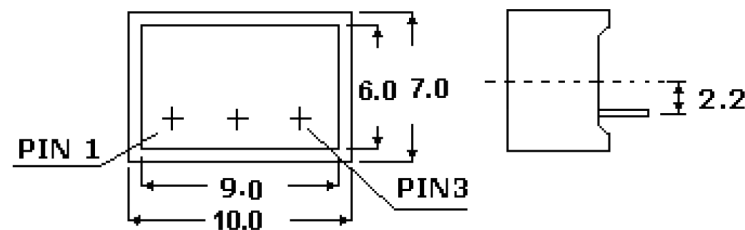
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Relative Intensity VS. wavelength

Dimensions



Dimensions : Millimetres

Part Number Table

Description	Part Number
LED Light Bar, Super Yellow, 590nm, 18mcd, 7mm x 10mm	MP007998

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