

Round LED Light Bar

Ultra Orange Red/Ultra Green, 50mm

multicomp PRO

RoHS
Compliant

Specifications

Dice Material : AlInGaP / InGaN
Emitted colour : Ultra Orange Red / Ultra Green
Epoxy colour : White Diffused
Surface Ink colour : No Ink
Peak wavelength : 635/525nm
Luminous intensity (IV) : 65/75mcd

Electrical / Optical Characteristics at Ta = 25°C						
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test
Luminous Intensity	IV	35/50	65/75	75/95	mcd	IF = 20mA
Viewing Angle	2θ1/2				deg	
Peak Emission Wavelength	λp		635/525		nm	
Dominant Wavelength	λD		624/527		nm	
Spectral Line Half-Width	Δλ		18/40		nm	
Forward Voltage	VF	1.9/2.7	2.2/3.2	2.5/3.6	V	
Power Dissipation	Pd			85		
Peak Forward Current (Duty 1/10 @ 1KHz)	IF (Peak)			100		
Recommended Operating Current	IF (Rec)		20		uA	VR=5V

Absolute Maximum Ratings: (Ta = 25°C)	
Reverse Voltage	5 Volt
Reverse Current	10uA (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

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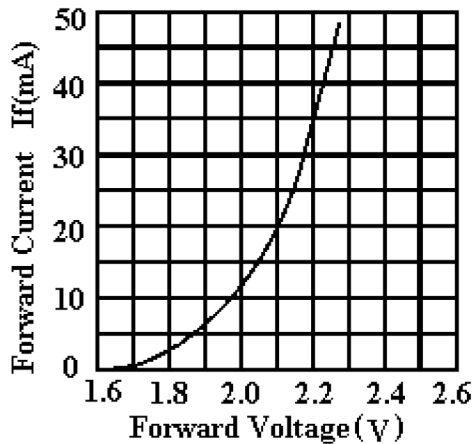
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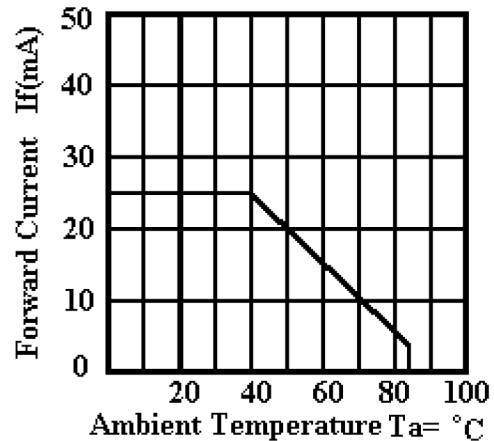
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Typical Electro-Optical Characteristics Curves

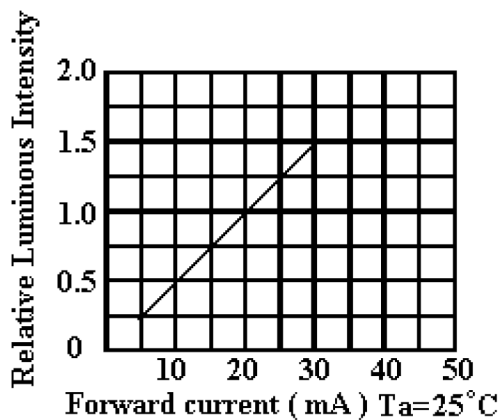
Ultra Orange (AlInGaP $\lambda_P=635\text{nm}$)



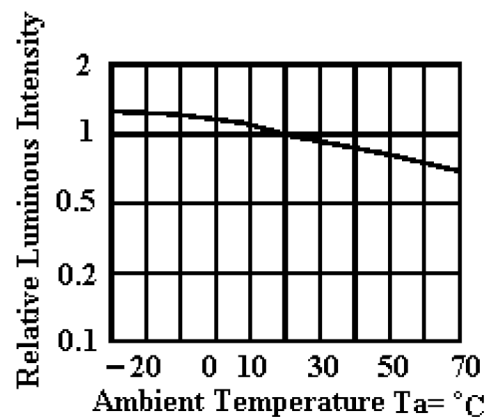
Forward current vs. Forward Voltage



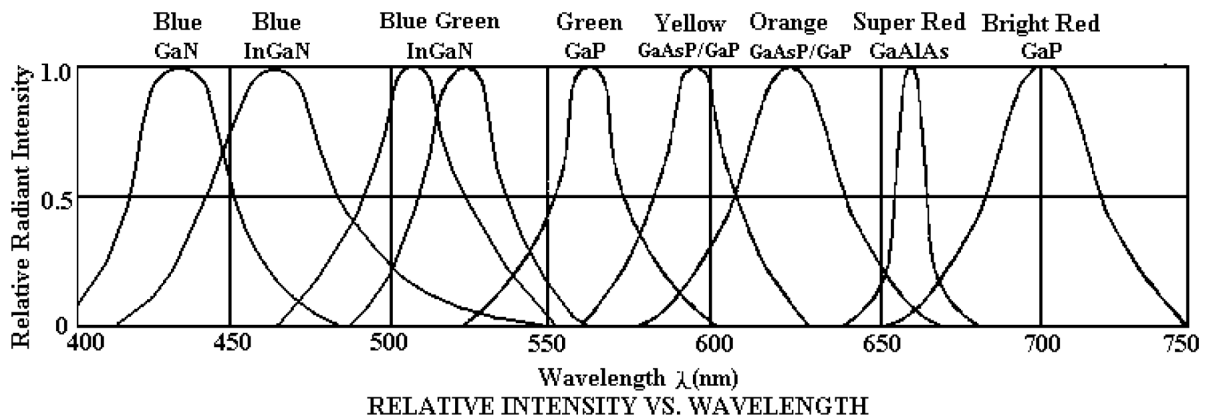
Forward current Derating curve



Luminous Intensity vs. Forward current



Luminous Intensity vs. Ambient Temperature



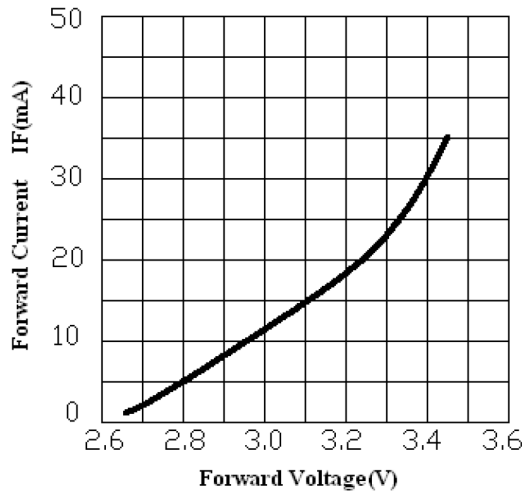
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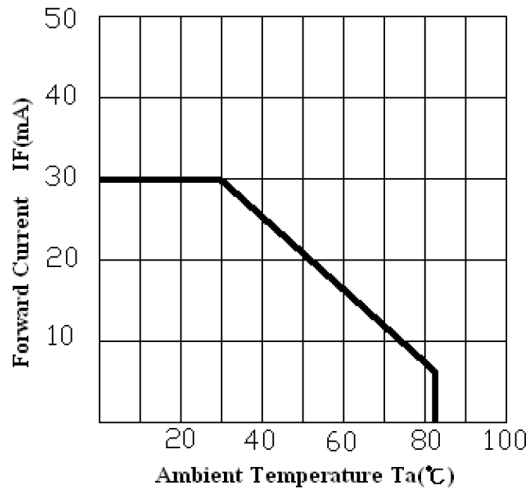
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Typical Electro-Optical Characteristics Curves

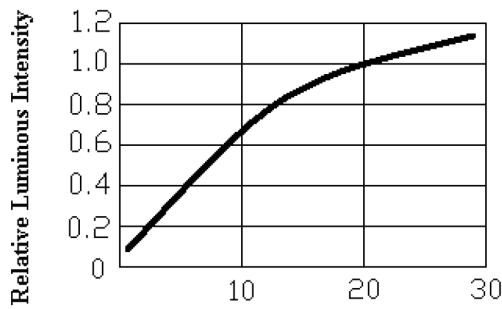
Ultra Green (InGaN $\lambda_P = 525\text{nm}$)



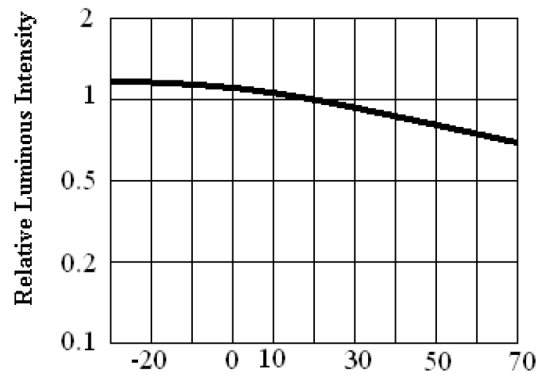
Forward Current vs. Forward Voltage



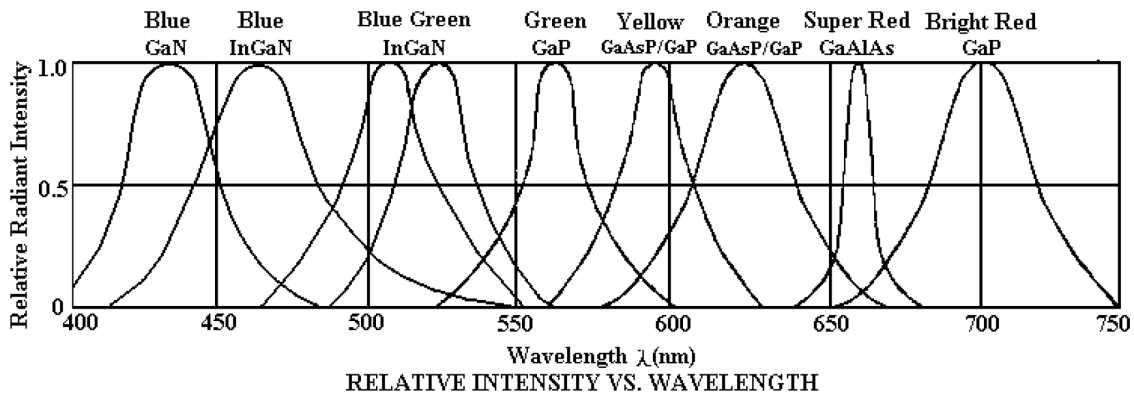
Forward Current Derating Curve



Forward current (mA) $T_a = 25^\circ\text{C}$
Luminous Intensity vs. Forward current



Ambient Temperature $T_a = ^\circ\text{C}$
Luminous Intensity vs. Ambient Temperature



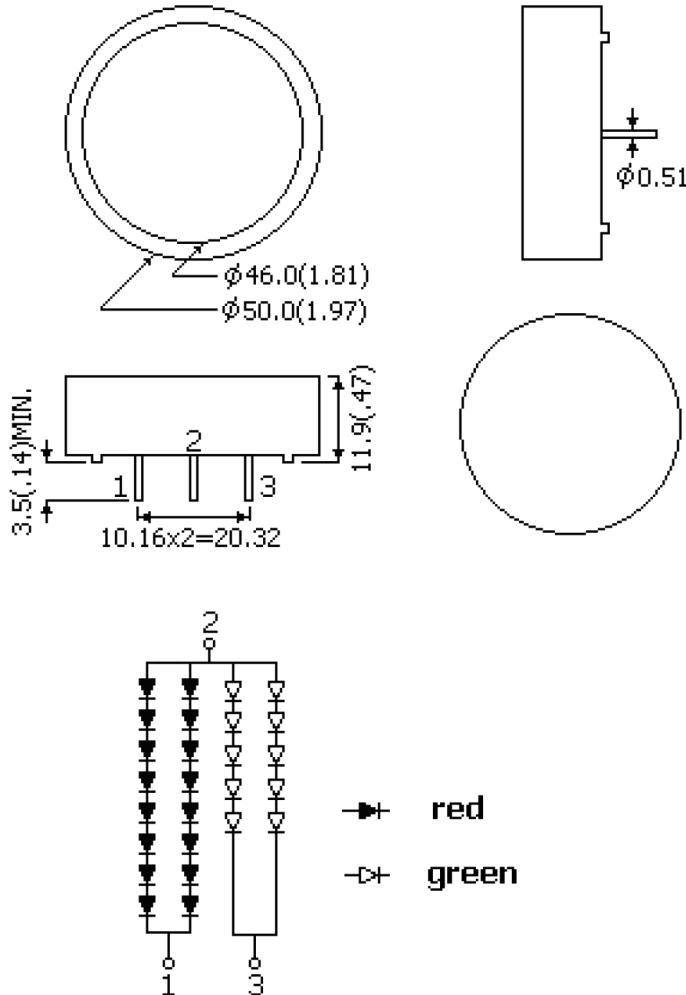
RELATIVE INTENSITY VS. WAVELENGTH

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Dimensions



Dimensions : Millimetres

Part Number Table

Description	Part Number
Round LED Light Bar, Ultra Orange Red/Ultra Green, 635nm/525nm, 65mcd/75mcd, Common Anode	MP008008

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