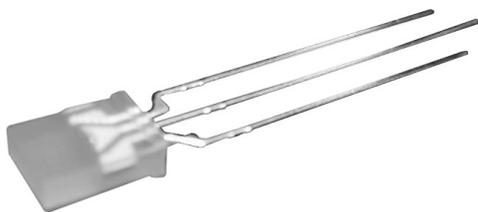


# Multi-Colour LED Lamp

## Red/Green

**multicomp** PRO

**RoHS  
Compliant**



### Specifications

Dice material	: GaAIAs/GaP
Emitted colour	: Super red/green
Lens colour	: White diffused
Peak wavelength	: 660/568nm
Viewing angle	: 120°
Luminous intensity (IV)	: 12/3.1mcd

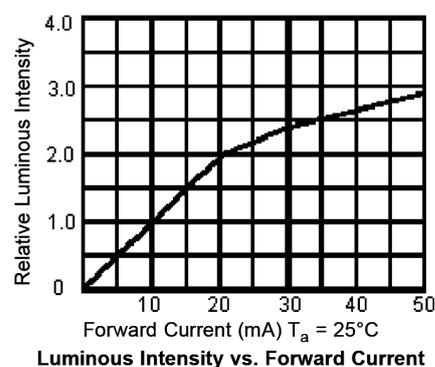
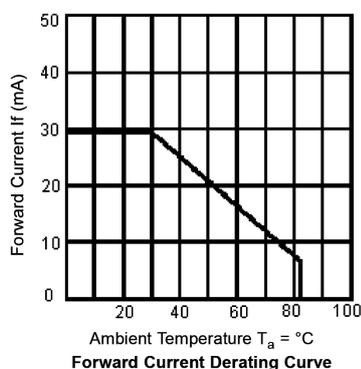
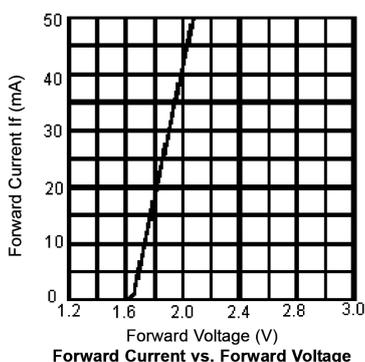
### Absolute Maximum Ratings (T<sub>A</sub> = 25°C)

Reverse Voltage	5V
Reverse Current	10μA (V <sub>R</sub> = 5V)
Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	-40°C to +100°C
Lead Soldering Temperature Range 1.6mm (1/16 inch) from body	260°C for 5 Seconds

### Electrical/Optical Characteristics at T<sub>A</sub> = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	6/1.4	12/3.1	18/4.9	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	120	-	degrees	
Peak Emission Wavelength	X	-	660/568	-	nm	-
Dominant Wavelength	Y	-	643/570	-		-
Spectral Line Half-Width	Δλ	-	20/30	-		-
Forward Voltage	V <sub>F</sub>	1.5/1.7	1.8/2.1	2.5/2.6	V	IF = 20mA
Power Dissipation	P <sub>d</sub>	-	-	85	-	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

### Super Red (GaAIAs) λ<sub>P</sub> = 660nm



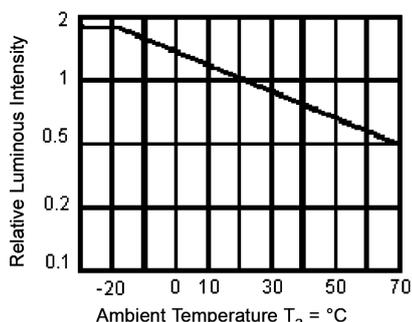
Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
Element14.com/multicomp-pro

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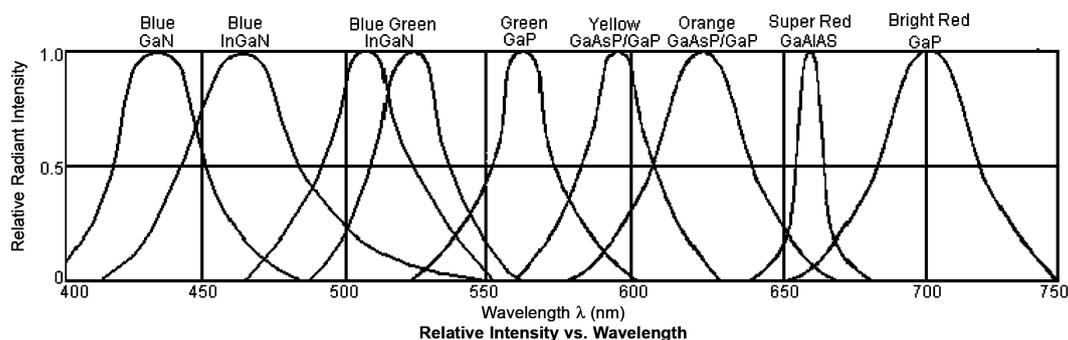
# Multi-Colour LED Lamp

## Red/Green

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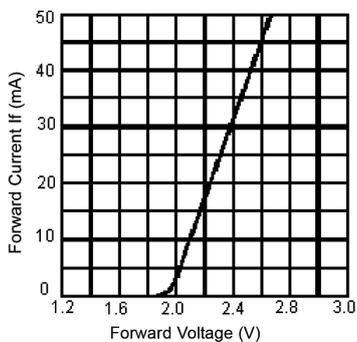


Luminous Intensity vs. Ambient Temperature

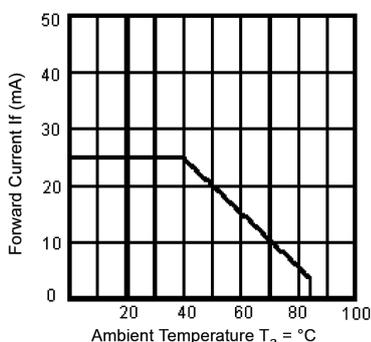


Relative Intensity vs. Wavelength

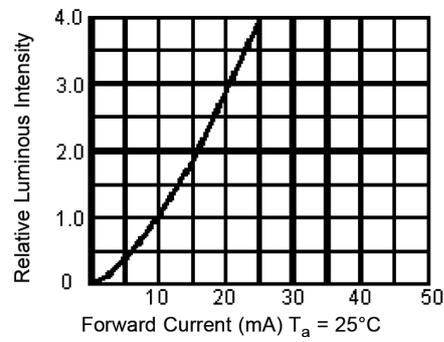
### Green (GaP $\lambda_P = 568\text{nm}$ )



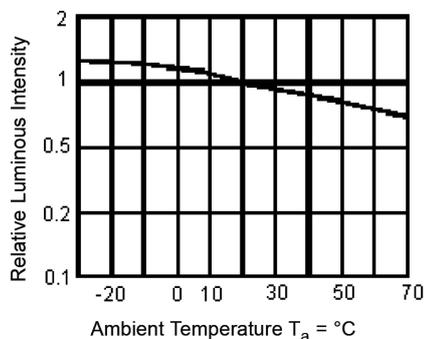
Forward Current vs. Forward Voltage



Forward Current Derating Curve



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature

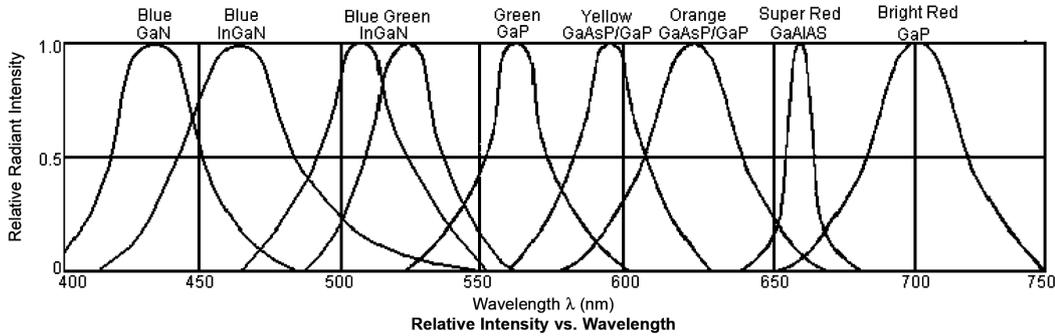
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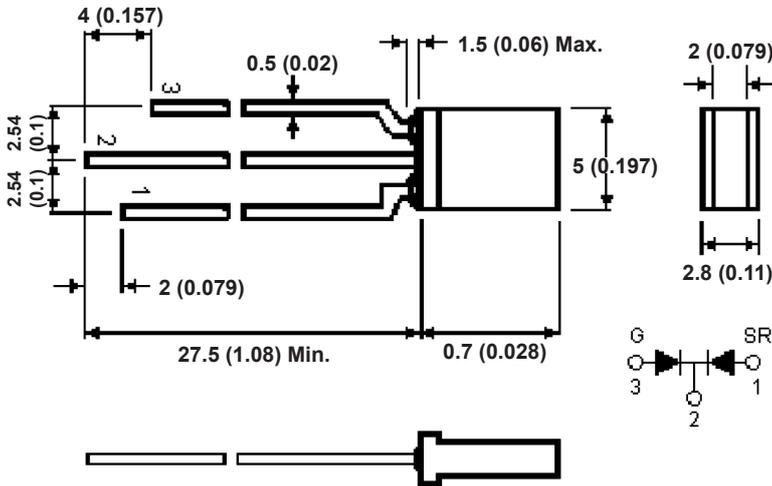
# Multi-Colour LED Lamp

## Red/Green

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### Diagram



### Part Number Table

Description	Part Number
LED, Through Hole, 5mm × 2.8mm, Hi-Red/Green	MCL239PURGW

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