Bi-Colour LED Lamp
5mm, Red/Green

multicomp PRO

RoHS Compliant

Specifications

Dice material	: AlAGas/GaP
Emitted colour	: Super red/green
Lens colour	: White diffused
Peak wavelength	: 660/568nm
Viewing angle	: 45°
Luminous intensity (IV)	: 50/15mcd

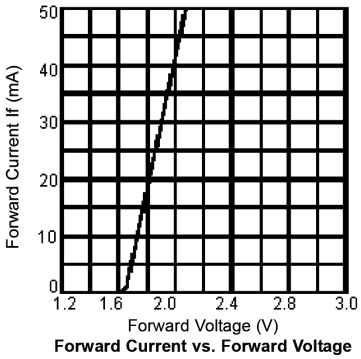
Absolute Maximum Ratings (T_A = 25°C)

Reverse Voltage	5V
Reverse Current	10µA (V_R = 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

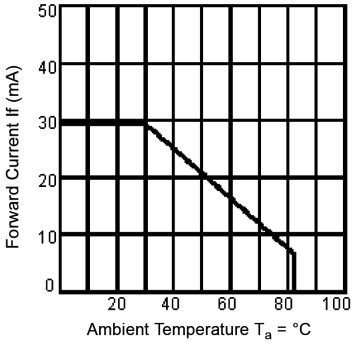
Electrical/Optical Characteristics at T_A = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	25/7	50/15	70/24	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	45	-	degrees	
Peak Emission Wavelength	X	-	660/568	-	nm	-
Dominant Wavelength	Y	-	643/570	-		-
Spectral Line Half-Width	Δλ	-	20/30	-		-
Forward Voltage	VF	1.5/1.7	1.8/2.1	2.5/2.6	V	IF = 20mA
Power Dissipation	Pd	-	-	85	-	-
Peak Forward Current (Duty 1/10 at 1kHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

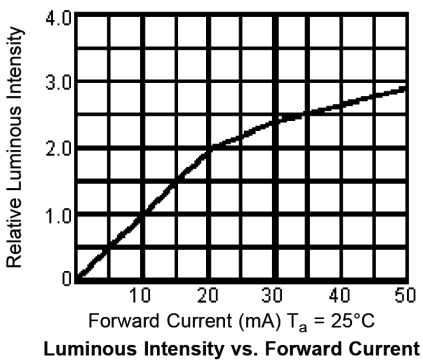
Super Red (GaAlAs) λP = 660nm



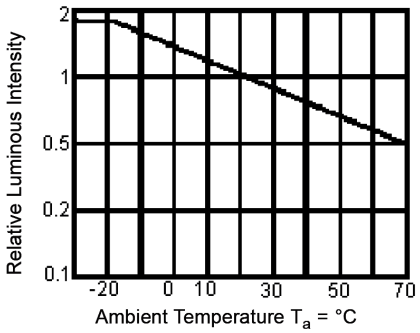
Forward Current vs. Forward Voltage



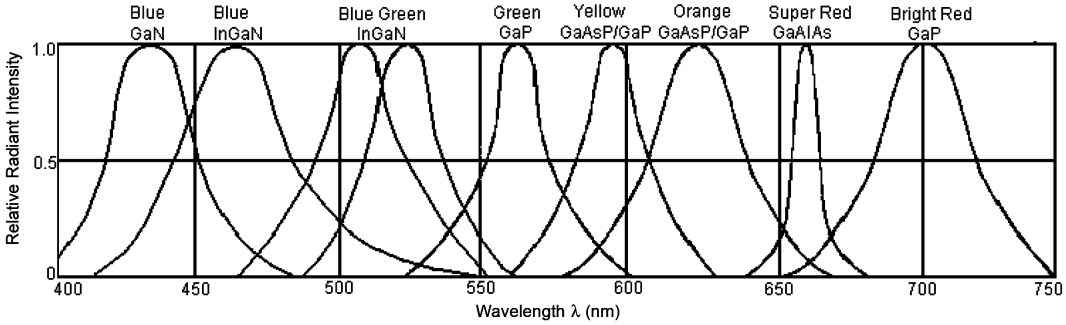
Forward Current Derating Curve



Luminous Intensity vs. Forward Current

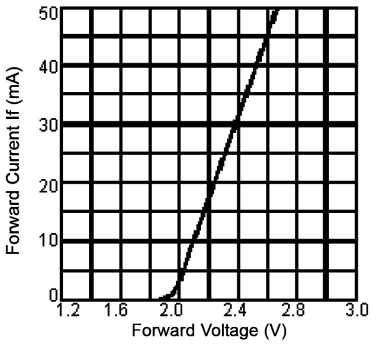


Luminous Intensity vs. Ambient Temperature

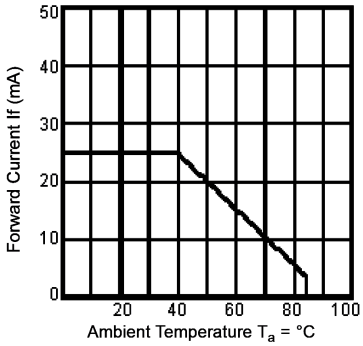


Relative Intensity vs. Wavelength

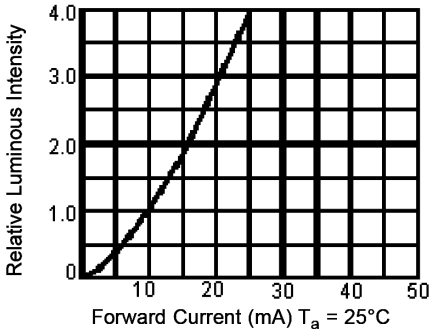
Green (GaP λP = 568nm)



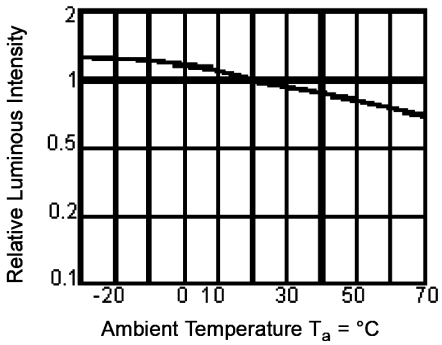
Forward Current vs. Forward Voltage



Forward Current Derating Curve



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature

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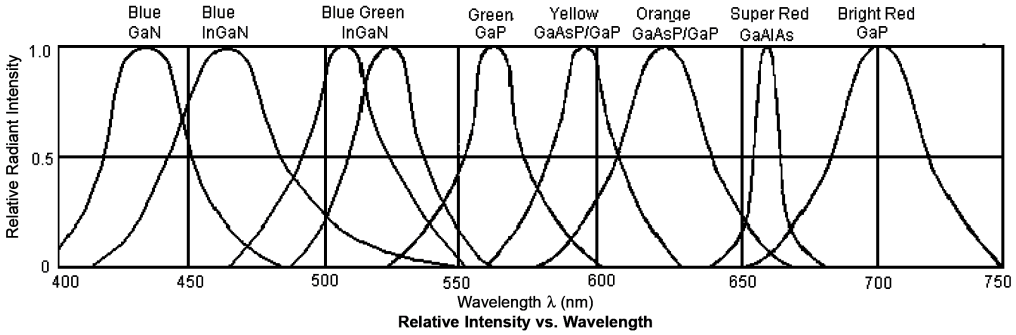
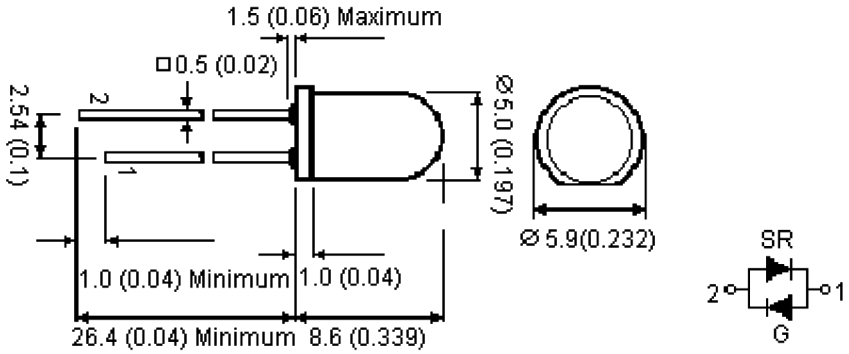


Relative Intensity vs. Wavelength

Diagram



Dimensions : Millimetres (Inches)

Part Number Table

Description	Part Number
5mm Bi-Colour LED Lamp - Hi Red/Green	MCL056PURGW