

# 3.0mm Round Bi-Colour Lamp

## Hyper Red / Green

multicomp<sup>PRO</sup>

RoHS  
Compliant

### Specifications

Dice material	: AlGaInP/GaAs / GaAs
Emmiting Colour	: Hyper Red / Green
Lens colour	: White Diffused
Peak wavelength	: 632nm / 570nm
Viewing angle	: 70°
Luminous intensity (IV)	: 70mcd / 50mcd

### Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Power Dissipation	PD	R= 72 G=78	mW
D.C. Forward Current	If	30	mA
Reverse Voltage	Vr	5	V
Reverse (Leakage) Current	Ir	100	µA
Operating Temperature	Top	-25 to +85	°C
Storage Temperature	Tstg.	-40 to +85	°C
Peak Current (1/10Duty Cycle,0.1ms Pulse Width.)	If (peak)	100	mA
Soldering Temperature (1.6mm from body)	Tsol	Dip Soldering : 260°C for 5 sec. Hand Soldering : 350°C for 3 sec.	

### Electrical and Optical Characteristics

Parameter	Symbol	Condition	Colour	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If=20mA	R	30	70		mcd
			G	20	50		
Forward Voltage	Vf	If=20mA	R		1.9	2.4	V
			G		2.1	2.6	
Peak Wavelength	λp	If=20mA	R		632		nm
			G		570		
Dominant Wavelength	λd	If=20mA	R		625		nm
			G		572		
Reverse (Leakage) Current	Ir	Vr=5V				50	µA
Viewing Angle	2θ1/2	If=20mA			70		deg
Spectrum Line Halfwidth	Δλ	If=20mA	R		20		nm
			G		30		

Notes:

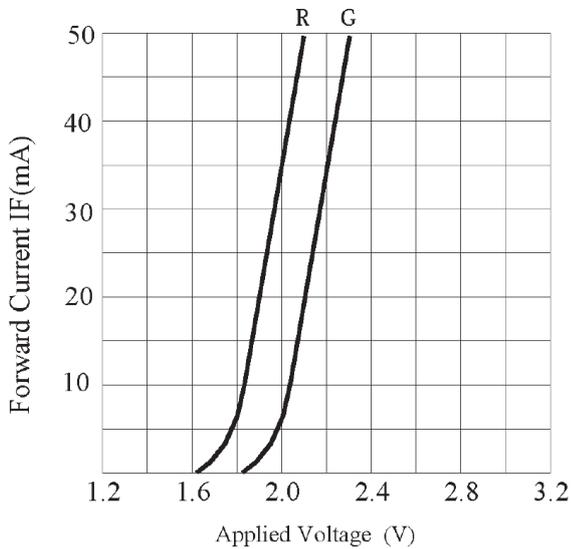
1. Tolerance of Luminous Intensity is ±15%.
2. Tolerance of Forward Voltage is ±0.1V.
3. Tolerance of Dominant Wavelength is ±1nm.
4. The specifications, characteristics and technical data described in the datasheet are subject to change without notice.

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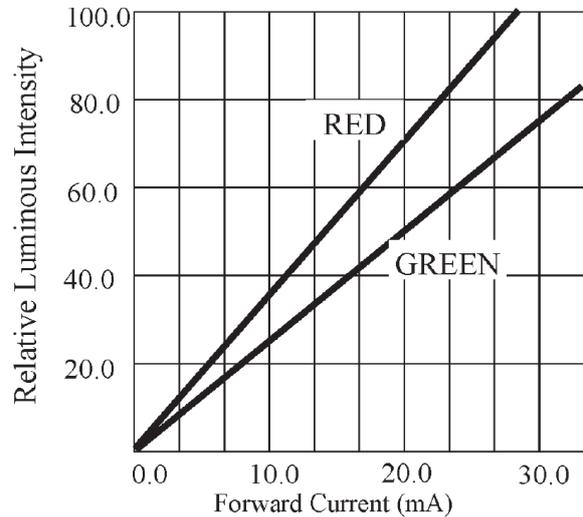
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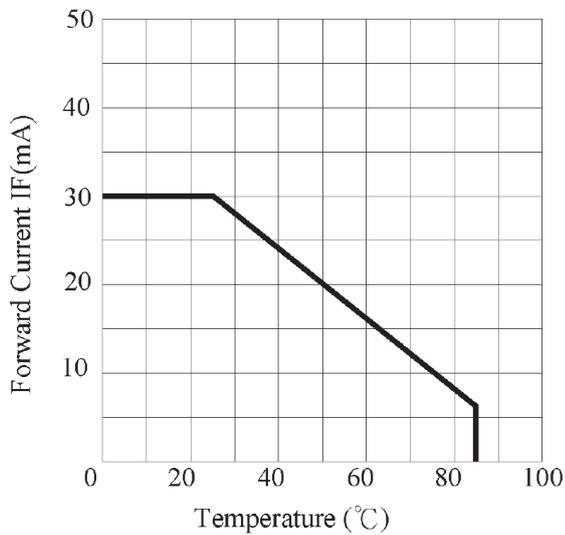
## Typical Electrical/ Optical Characteristics Curves



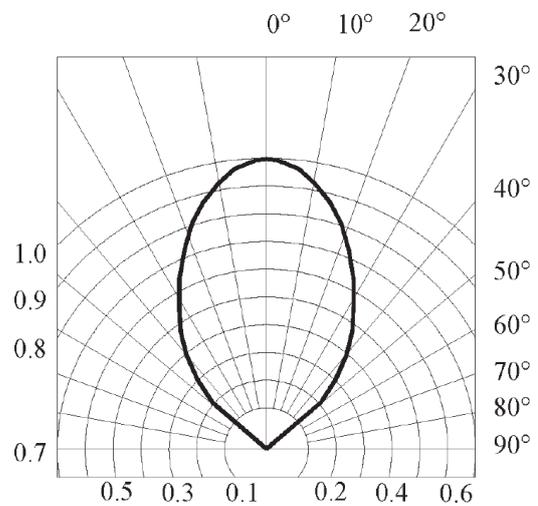
**FORWARD CURRENT VS. APPLIED VOLTAGE**



**FORWARD CURRENT VS. LUMINOUS INTENSITY**



**FORWARD CURRENT VS. AMBIENT TEMPERATURE**

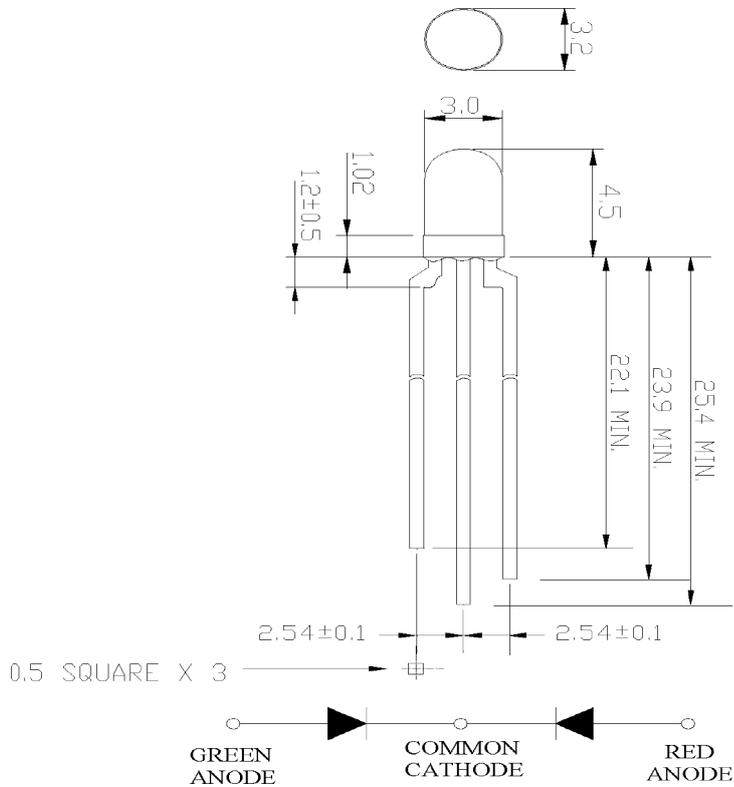


**RADIATION DIAGRAM**

# 3.0mm Round Bi-Colour Lamp Hyper Red / Green



## Dimensions



Tolerance is  $\pm 0.25\text{mm}$  unless otherwise noted.

Dimensions : Millimetres

## Part Number Table

Description	Part Number
Round LED, Hyper Red/Green, 625/572nm, 70°, 70/50mcd, Through hole	MP008265

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