

5.0mm Round Bi-Colour Lamp Red / Green

multicomp^{PRO}

RoHS
Compliant

Specifications

Dice material	: AlGaInP/GaAs / GaAs
Emmiting Colour	: Hyper red / Green
Lens colour	: White Diffused
Peak wavelength	: 632nm / 570nm
Viewing angle	: 60°
Luminous intensity (IV)	: 80mcd / 60mcd

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	
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	80		mcd
			G	20	60		
Forward Voltage	Vf	If=20mA	R		1.9	2.4	V
			G		2.1	2.6	
Peak Wavelength	λ_p	If=20mA	R		632		nm
			G		570		
Dominant Wavelength	λ_d	If=20mA	R		625		nm
			G		572		
Reverse (Leakage) Current	Ir	Vr=5V				50	μ A
Viewing Angle	2 θ 1/2	If=20mA			60		deg
Spectrum Line Halfwidth	$\Delta\lambda$	If=20mA	R		20		nm
			G		30		

Notes:

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

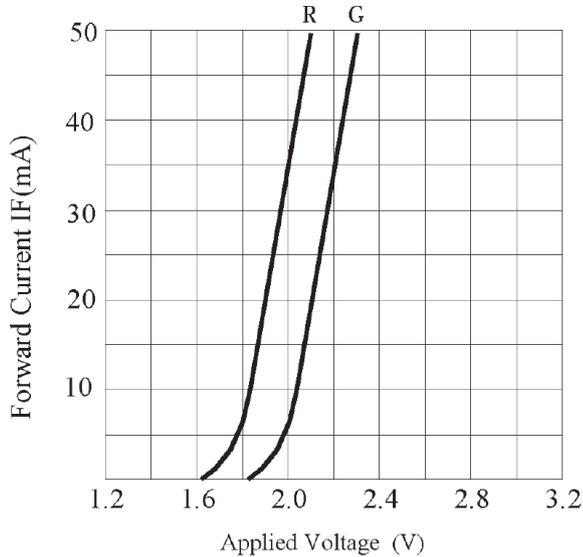
Newark.com/multicomp-pro
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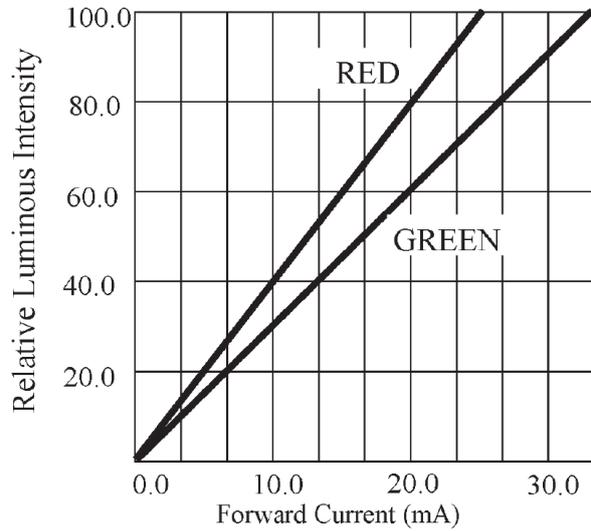
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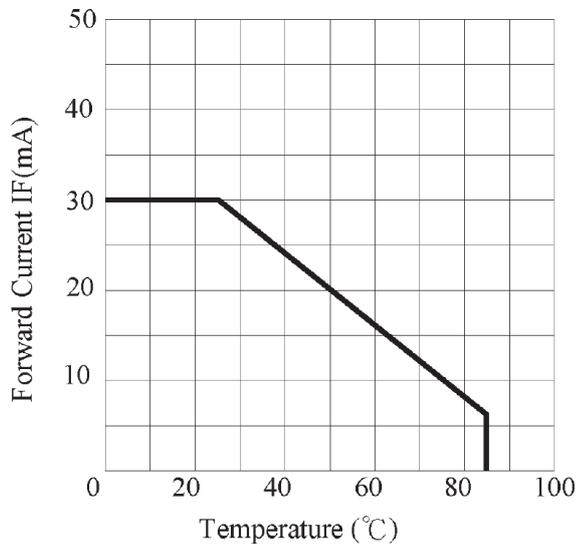
Typical Electrical/ Optical Characteristics Curves



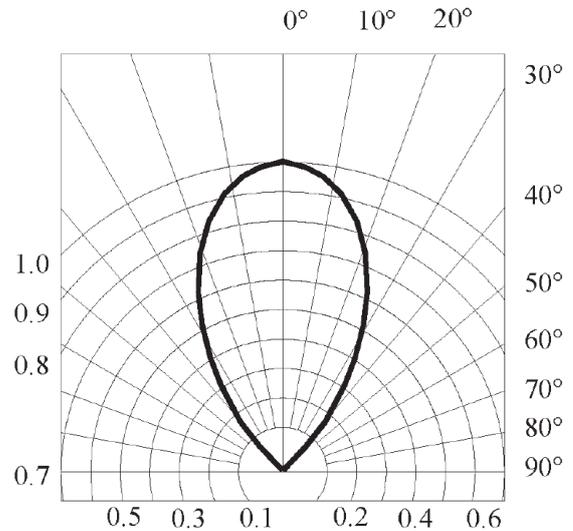
FORWARD CURRENT VS. APPLIED VOLTAGE



FORWARD CURRENT VS. LUMINOUS INTENSITY



FORWARD CURRENT VS. AMBIENT TEMPERATURE

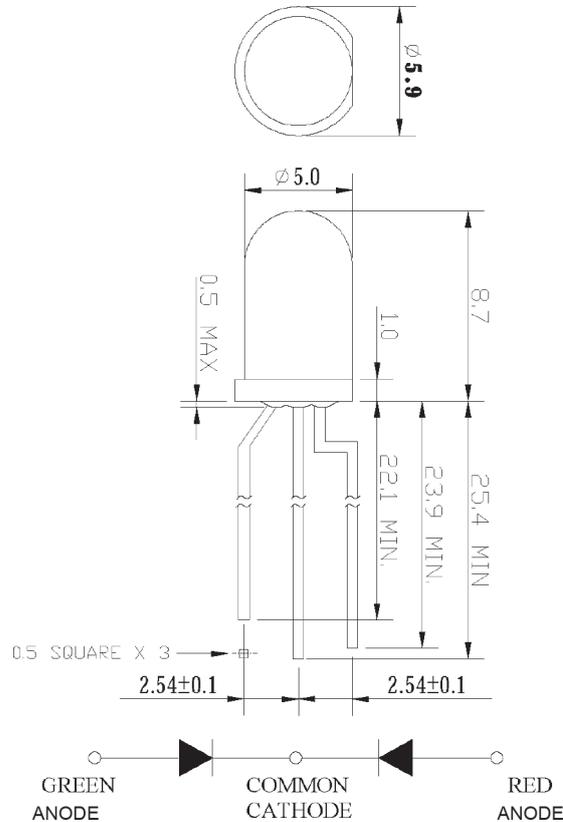


RADIATION DIAGRAM

5.0mm Round Bi-Colour Lamp 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, 632/570nm, 60°, 80/60mcd, Through hole	MP008263

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