5mm Round Bi-colour Lamp
(2 Leads)

multicomp

Package Dimensions:

RoHS Compliant

5.0

8.7

0.5 MAX.

1.5 TYP.

24.0 MIN.

0.5 SQUARE X 2

GREEN

ORANGE

All dimensions are in mm
Tolerance: ±0.25mm

Features:

• Green and Orange bi-colour lamp
• Made with GaP / GaP green chip, GaAsP / GaP orange chip and white diffused epoxy resin

Absolute Maximum Ratings at Ta=25°C

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

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Electrical & Optical Characteristics: Green

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If = 20mA	3	8.5		mcd
Forward Voltage	Vf	If = 20mA		2.1	2.6	V
Peak Wavelength	λp	If = 20mA		567		nm
Dominant Wavelength	λd	If = 20mA		572		nm
Reverse (Leakage) Current	Ir	Vr = 5V			100	µA
Viewing Angle	2 θ ½	If = 20mA		70		deg
Spectrum Line Halfwidth	Δλ	If = 20mA		30		nm

Notes: 1. The data is tested by IS tester.
2. Customer's special requirements are also welcome.

Absolute Maximum Ratings at Ta=25°C

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

Electrical & Optical Characteristics: Orange

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If = 20mA	3	8.5		mcd
Forward Voltage	Vf	If = 20mA		2.1	2.6	V
Peak Wavelength	λp	If = 20mA		642		nm
Dominant Wavelength	λd	If = 20mA		629		nm
Reverse (Leakage) Current	Ir	Vr = 5V			100	µA
Viewing Angle	2 θ ½	If = 20mA		70		deg
Spectrum Line Halfwidth	Δλ	If = 20mA		35		nm

Notes: 1. The data is tested by IS tester.
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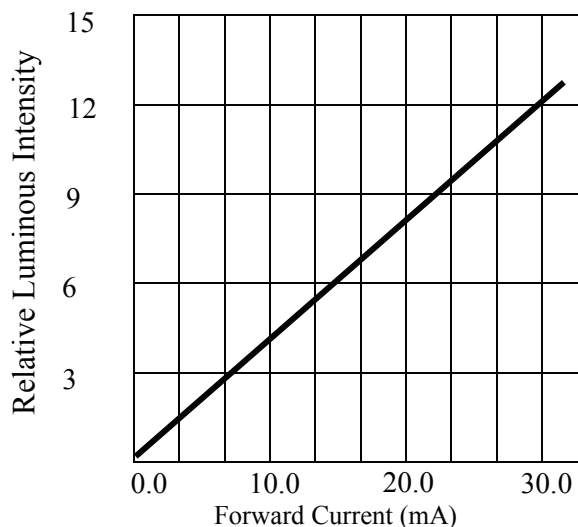Page <2>   27/06/12   V1.0
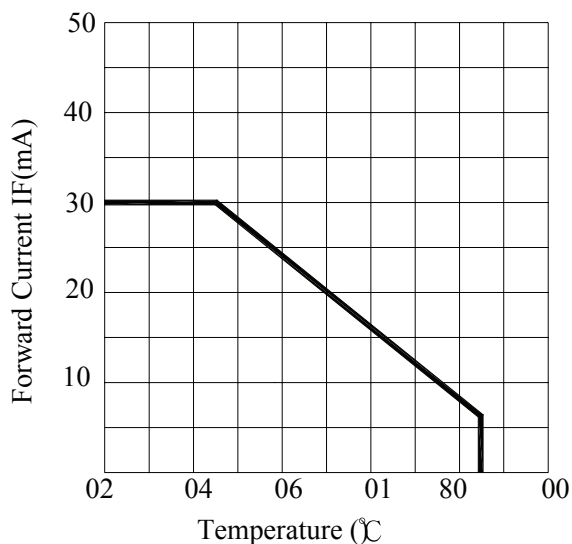
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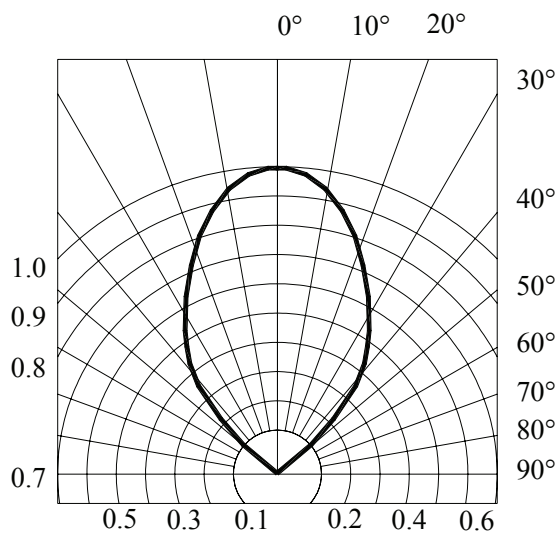## Typical Electrical & Optical Characteristics Curves:
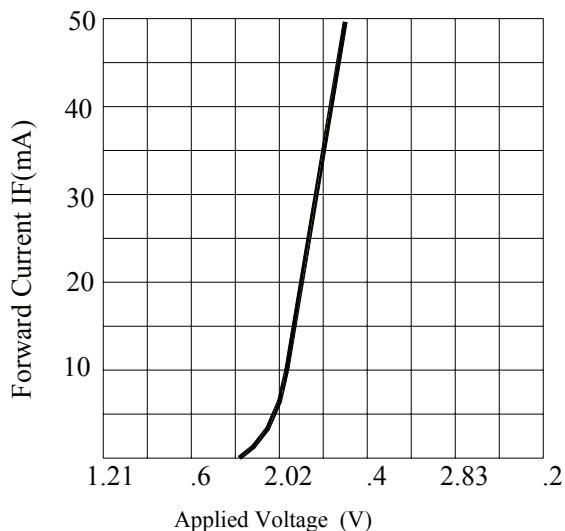
FORWARD CURRENT VS.APPLIED VOLTAGE

FORWARD CURRENT VS. LUMINOUS INTENSITY

FORWARD CURRENT VS. AMBIENT TEMPERATURE

RADIATION DIAGRAM

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Part Number Table

LED Chip		Lens Colour	Part Number
Material	**Emitting Colour**		
GaP / GaP	Green	White Diffused	703-0103
GaAsP / GaP	Orange		

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