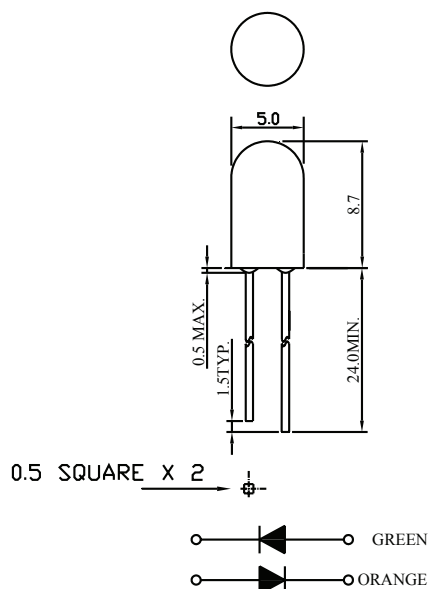


# 5mm Round Bi-colour Lamp (2 Leads)



## Package Dimensions:



## Features:

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

All dimensions are in mm  
Tolerance:  $\pm 0.25\text{mm}$

## Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Power Dissipation	$P_D$	78	mW
Reverse Voltage	$V_R$	5	V
D.C. Forward Current	$I_f$	30	mA
Reverse (Leakage) Current	$I_r$	100	$\mu\text{A}$
Peak Current (1 / 10 Duty Cycle, 0.1ms Pulse Width)	$I_f$ (Peak)	100	mA
Operating Temperature Range	$T_{opr}$	-25 to + 85	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-40 to +100	$^\circ\text{C}$
Soldering Temperature (1.6mm from body)	$T_{sol}$	Dip Soldering: $260^\circ\text{C}$ for 5sec. Hand Soldering: $350^\circ\text{C}$ for 3sec.	

# 5mm Round Bi-colour Lamp (2 Leads)



## Electrical & Optical Characteristics: Green

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	$I_v$	$I_f = 20\text{mA}$	3	8.5		mcd
Forward Voltage	$V_f$	$I_f = 20\text{mA}$		2.1	2.6	V
Peak Wavelength	$\lambda_p$	$I_f = 20\text{mA}$		567		nm
Dominant Wavelength	$\lambda_d$	$I_f = 20\text{mA}$		572		nm
Reverse (Leakage) Current	$I_r$	$V_r = 5\text{V}$			100	$\mu\text{A}$
Viewing Angle	$2\theta \frac{1}{2}$	$I_f = 20\text{mA}$		70		deg
Spectrum Line Halfwidth	$\Delta\lambda$	$I_f = 20\text{mA}$		30		nm

Notes: 1. The data is tested by IS tester.

2. Customer's special requirements are also welcome.

## Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Power Dissipation	$P_D$	78	mW
Reverse Voltage	$V_R$	5	V
D.C. Forward Current	$I_f$	30	mA
Reverse (Leakage) Current	$I_r$	100	$\mu\text{A}$
Peak Current (1 / 10 Duty Cycle, 0.1ms Pulse Width)	$I_f$ (Peak)	100	mA
Operating Temperature Range	$T_{opr}$	-25 to + 85	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-40 to +100	$^\circ\text{C}$
Soldering Temperature (1.6mm from body)	$T_{sol}$	Dip Soldering: 260 $^\circ\text{C}$ for 5sec. Hand Soldering: 350 $^\circ\text{C}$ for 3sec.	

## Electrical & Optical Characteristics: Orange

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	$I_v$	$I_f = 20\text{mA}$	3	8.5		mcd
Forward Voltage	$V_f$	$I_f = 20\text{mA}$		2.1	2.6	V
Peak Wavelength	$\lambda_p$	$I_f = 20\text{mA}$		642		nm
Dominant Wavelength	$\lambda_d$	$I_f = 20\text{mA}$		629		nm
Reverse (Leakage) Current	$I_r$	$V_r = 5\text{V}$			100	$\mu\text{A}$
Viewing Angle	$2\theta \frac{1}{2}$	$I_f = 20\text{mA}$		70		deg
Spectrum Line Halfwidth	$\Delta\lambda$	$I_f = 20\text{mA}$		35		nm

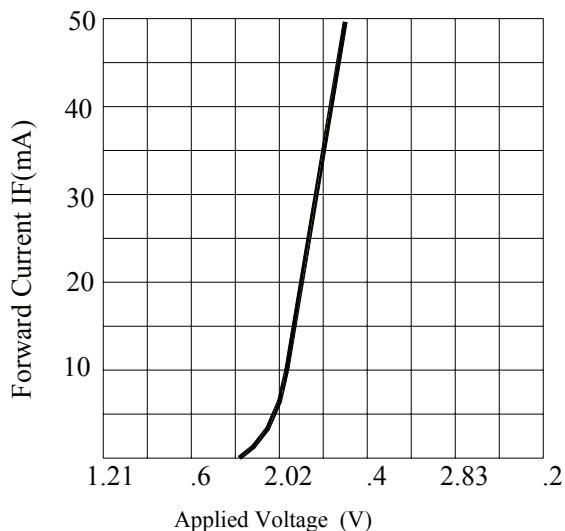
Notes: 1. The data is tested by IS tester.

2. Customer's special requirements are also welcome.

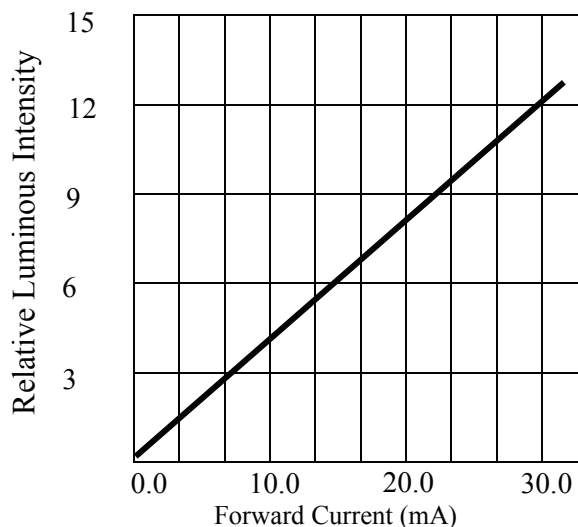
# 5mm Round Bi-colour Lamp (2 Leads)



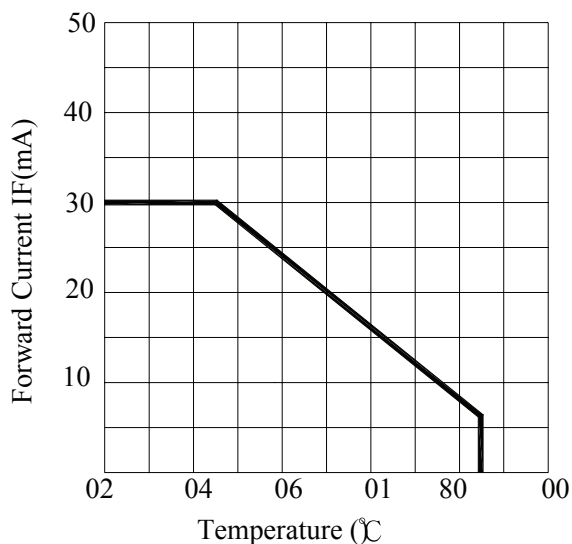
## Typical Electrical & Optical Characteristics Curves:



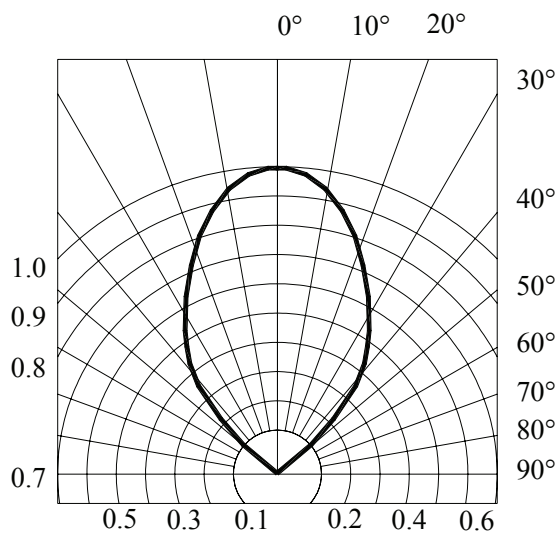
**FORWARD CURRENT VS. APPLIED VOLTAGE**



**FORWARD CURRENT VS. LUMINOUS INTENSITY**



**FORWARD CURRENT VS. AMBIENT TEMPERATURE**



**RADIATION DIAGRAM**

# 5mm Round Bi-colour Lamp (2 Leads)



## 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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