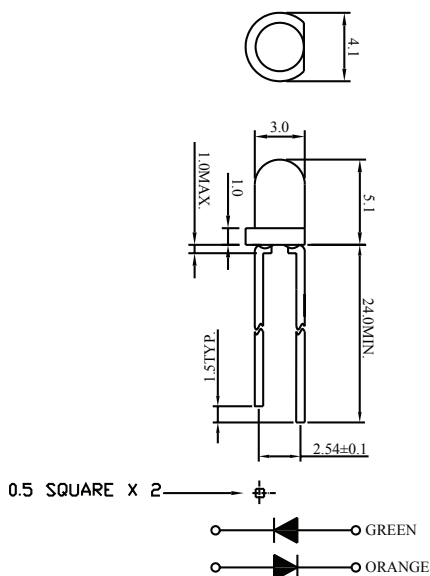


3mm Round Bi-colour Lamp (2 Leads)



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	μA
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°C for 5sec. Hand Soldering: 350°C for 3sec.	

3mm 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		mcd
Forward Voltage	V_f	$I_f = 20\text{mA}$		2.1	2.6	V
Peak Wavelength	λ_p	$I_f = 20\text{mA}$		567		nm
Dominant Wavelength	λ_d	$I_f = 20\text{mA}$		572		nm
Reverse (Leakage) Current	I_r	$V_r = 5\text{V}$			100	μA
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	μA
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		mcd
Forward Voltage	V_f	$I_f = 20\text{mA}$		2.1	2.6	V
Peak Wavelength	λ_p	$I_f = 20\text{mA}$		642		nm
Dominant Wavelength	λ_d	$I_f = 20\text{mA}$		629		nm
Reverse (Leakage) Current	I_r	$V_r = 5\text{V}$			100	μA
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

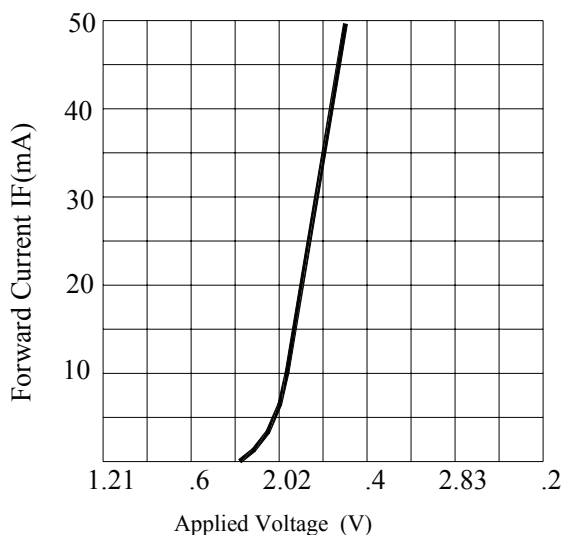
Notes: 1. The data is tested by IS tester.

2. Customer's special requirements are also welcome.

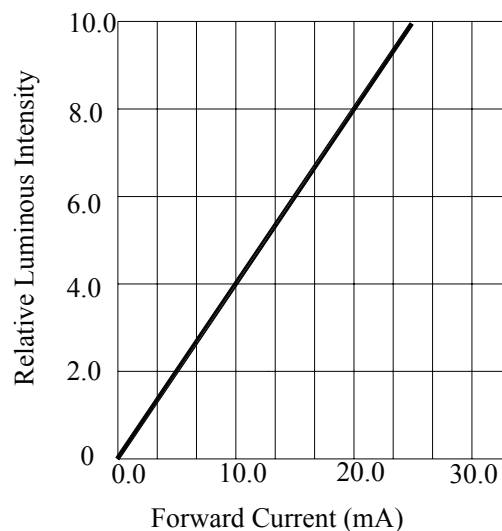
3mm Round Bi-colour Lamp (2 Leads)



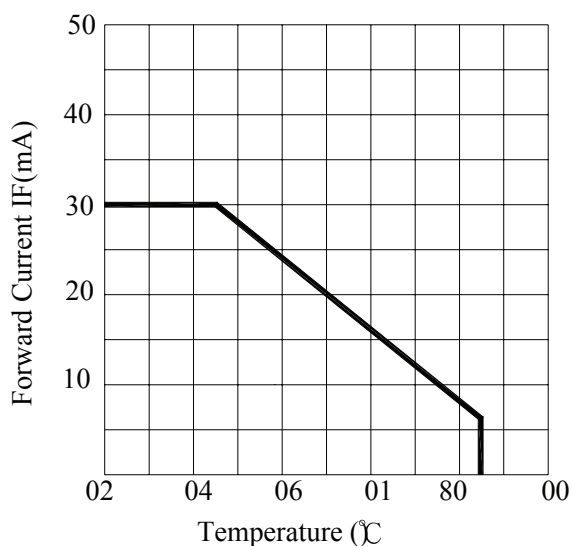
Typical Electrical & Optical Characteristics Curves:



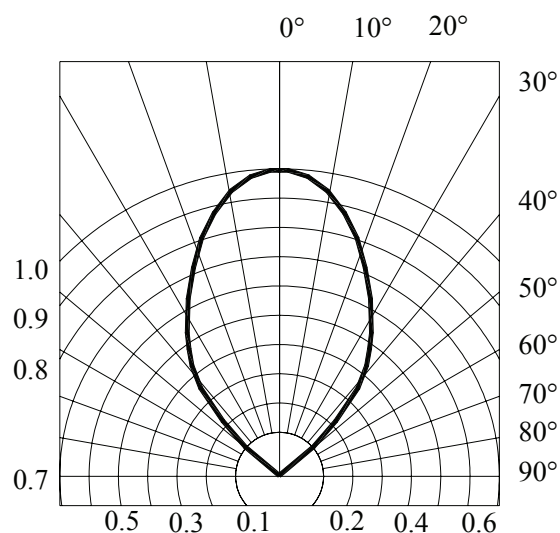
FORWARD CURRENT VS. APPLIED VOLTAGE



FORWARD CURRENT VS. LUMINOUS INTENSITY



FORWARD CURRENT VS. AMBIENT TEMPERATURE



RADIATION DIAGRAM

3mm Round Bi-colour Lamp (2 Leads)



Part Number Table

LED Chip		Lens Colour	Part Number
Material	Emitting Colour		
GaP / GaP	Green	White Diffused	703-0102
GaAsP / GaP	Orange		

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