

# 0805 SMD Bi-Colour Chip LED

## Red / Green

**multicomp** PRO

**RoHS  
Compliant**



### Specifications

Dice material	: InGaN/Sapphire / AlInGaP
Emitting Colour	: Red / Green
Lens colour	: Water Clear
Viewing angle	: 120°
Dominant Wavelength	: 635nm / 575nm
Luminous Intensity	: 240mcd / 80mcd

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

Parameter	Symbol	Rating		Unit
		R	G	
Power Dissipation	PD	44	44	mW
D.C Forward Current	If	20		mA
Reverse Voltage	Vr	5		V
Operating Temperature	Top	-40 to +85		°C
Storage Temperature	Tstg.	-40 to +100		°C
Peak Pulsing Current (1/8 Duty f=1kHz)	I <sub>fp</sub>	100		mA
Electrostatic Discharge	ESD	1000 (HBM)		V

### Electrical and Optical Characteristics

Parameter	Symbol	Colour	Condition	Value		Unit
Luminous Intensity	I <sub>v</sub>	R	If=20mA	130	240	mcd
		G		30	80	
Forward Voltage	V <sub>f</sub>	R	If=20mA	1.75	2.35	V
		G		1.75	2.35	
Dominant Wavelength	λ <sub>d</sub>	R	If=20mA	620	635	nm
		G		566	575	
Reverse Current	I <sub>r</sub>		V <sub>r</sub> =5V		1	μA
Viewing Angle at 50% I <sub>v</sub>	2θ <sub>1/2</sub>		If=10mA	120		deg

Notes:

1. Tolerance of Luminous Intensity is ±10%
2. Tolerance of Forward Voltage is ±0.5V
3. Tolerance of Dominant Wavelength is ±1nm

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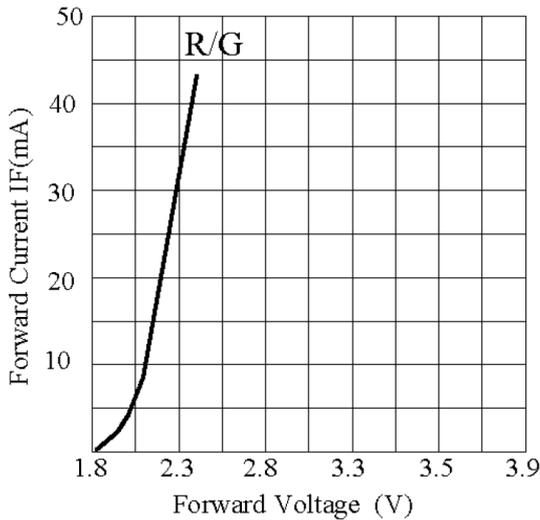
# 0805 SMD Bi-Colour Chip LED

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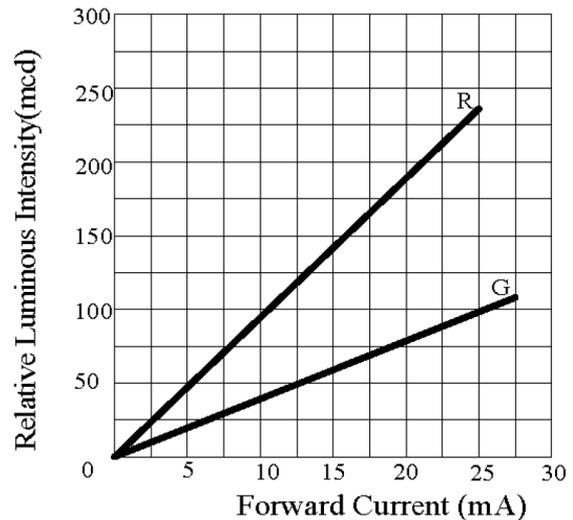


### Typical Electrical/Optical Characteristic Curves

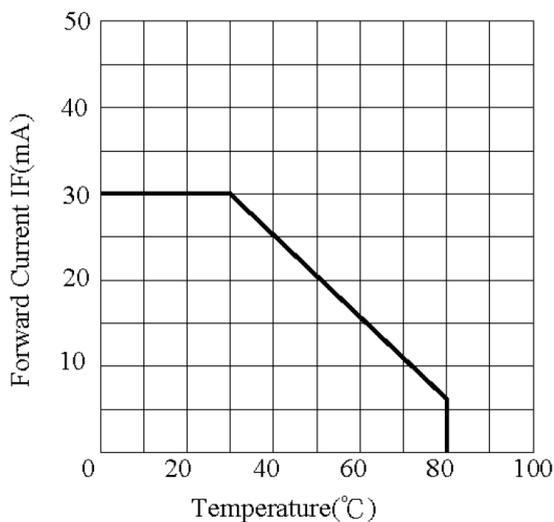
(25°C Ambient Temperature Unless Otherwise Noted)



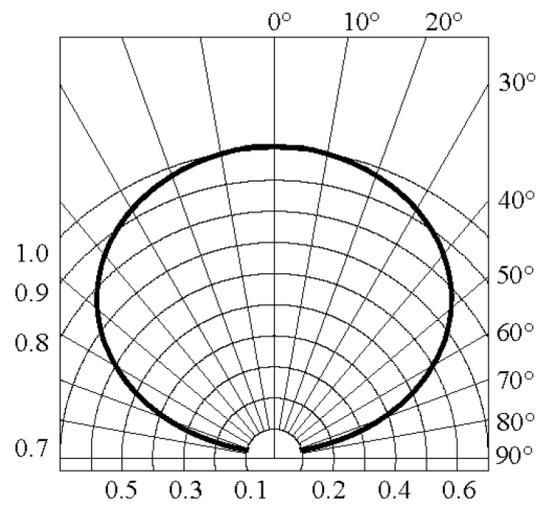
FORWARD CURRENT VS. APPLIED VOLTAGE



RELATIVE INTENSITY VS. FORWARD CURRENT



FORWARD CURRENT VS. AMBIENT TEMPERATURE



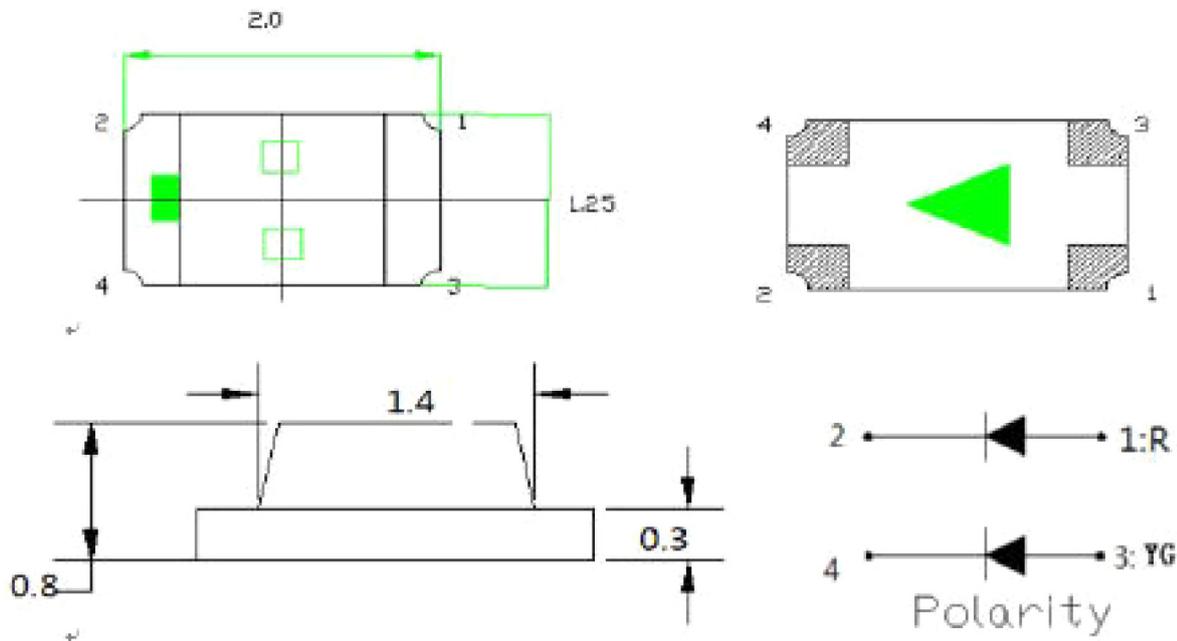
Radiation Diagram

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### Dimensions



Tolerance is  $\pm 0.2$ mm unless otherwise noted.

Dimensions : Millimetres

### Precautions in use:

#### Storage

It is recommended to store the products in the following conditions:

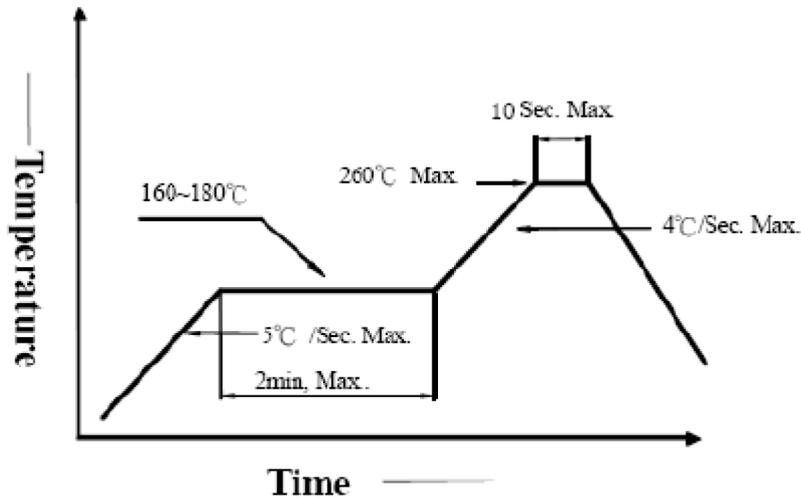
1. Do not open the moisture proof bag before ready to use the LEDs
2. The LEDs should be kept at 30°C or less and 60%RH or less before opening the package. The max. storage period before opening the package is 1 year.
3. After opening the package, the LEDs should be kept at 30°C/40%RH or less, and it should be used within 7 days
4. If the LEDs have exceeded the storage time, baking should be performed using the following conditions.  
Baking condition: 60 $\pm$ 5°C for 24 hours

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### Reflow Temp/Time:



### Notes:

1. Reflow soldering should not be done more than two times.
2. Do not put stress on the LEDs when soldering.
3. Do not warp the circuit board before it have been returned to normal ambient conditions after soldering.

### Part Number Table

Description	Part Number
Chip LED, Red/Geen, 635/575nm, 120°, 240/80mcd, Surface Mount	MP008260

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