

# Round LED

## 5mm, Yellow Green

multicomp<sup>PRO</sup>

RoHS  
Compliant



### Features

- Low power consumption
- Excellent product quality and reliability
- Lead-free device.

### Applications

- Electronic signs and signals
- Bright ambient lighting conditions
- Backlights.
- General purpose indicators

### Device Selection Guide

Part No.	Chip		Lens color
MP008542	Material	Emitted color	Green Diffuse
	GaP	Yellow Green	

### Absolute Maximum Ratings: (T<sub>A</sub> = 25°C)

Parameter	Symbol	Value	Unit
Power Dissipation	P <sub>D</sub>	50	mW
Forward Current	I <sub>F</sub>	30	mA
Peak Forward Current <sup>*1</sup>	I <sub>FP</sub>	100	mA
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature	T <sub>OPR</sub>	-40 to +85	°C
Storage Temperature	T <sub>STG</sub>	-40 to +85	°C
Soldering Temperature <sup>*2</sup>	T <sub>SOI</sub>	260°C For 5 Seconds	

Notes:

\*1: Pulse width ≤ 0.1ms, Duty cycle ≤ 1/10

\*2: 1.6mm below package base.

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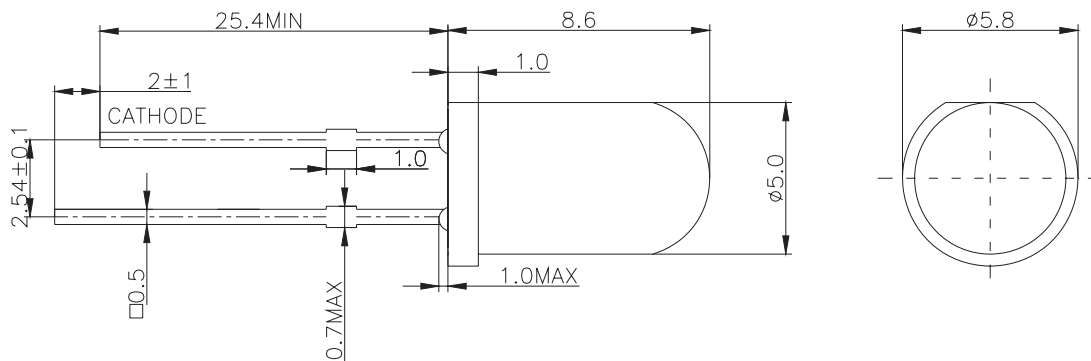
Electrical / Optical Characteristics at T <sub>A</sub> = 25°C						
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage	V <sub>F</sub>	1.8	2.1	2.6	V	I <sub>F</sub> = 20mA
Reverse Current	I <sub>R</sub>	-	-	10	uA	V <sub>R</sub> =5V
Dominant Wavelength	λ <sub>d</sub>	568	572	574	nm	I <sub>F</sub> =20mA
Peak Wavelength	λ <sub>p</sub>	-	570	-	nm	
Spectral Line Half-Width	Δλ	-	25	-	nm	
Luminous Intensity	I <sub>V</sub>	40	75	100	mcd	
Power Angle	2θ <sub>1/2</sub>	-	60	-	Deg.	

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or dominant wavelength), the typical accuracy of the sorting process is as follows:

1. Dominant Wavelength: +/-1nm
2. Chromatic Coordinates: +/-0.01
3. Luminous Intensity: +/-15%
4. Forward Voltage: +/-0.1V
5. The design and working current for LED is not less than 2mA.

### Dimensions



Notes:

1. All dimensions are in millimeters.
2. Tolerance is ±0.25 unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

Dimensions : Millimetres

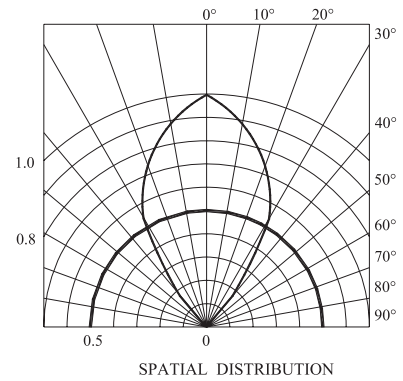
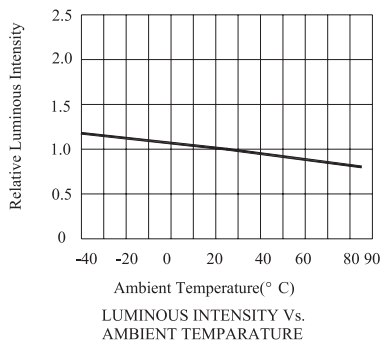
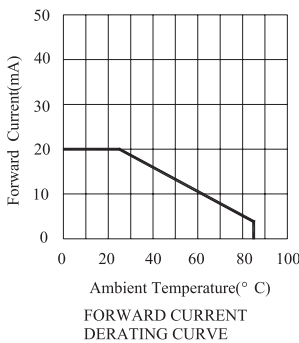
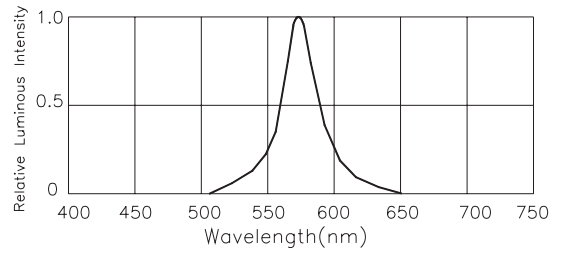
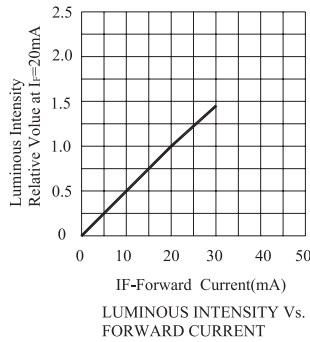
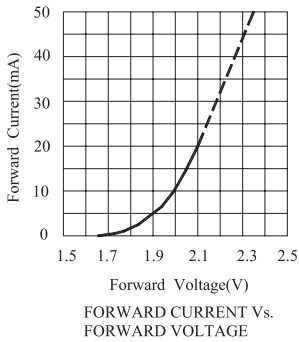
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### Typical Electrical/Optical Characteristics Curves ( Ta=25°C Unless Otherwise Noted )



### Part Number Table

Description	Part Number
Round LED, Yellow Green, 570nm, 60°, 75mcd, Through hole	MP008542

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