### **Round LED** 5mm, Yellow



RoHS Compliant



### **Features**

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

### **Applications**

- · Electronic signs and signals
- Bright ambient lighting conditions
- Backlight.
- · General purpose indicatiors

Device Selection Guide				
Part No.	Chip		Lens color	
MP008550	Material	Emitted color	Yellow Diffuse	
	AlGalnP	Yellow	Yellow Dilluse	

Absolute Maximum Ratings: (T <sub>A</sub> = 25°C)				
Parameter	Symbol	Value	Unit	
Power Dissipation	Po	50	mW	
Forward Current	lf	30	mA	
Peak Forward Current <sup>*1</sup>	<b>I</b> FP	100	mA	
Reverse Voltage	VR	5	V	
Operating Temperature	Topr	-40 to +85	°C	
Storage Temperature	Тѕтс	-40 to +85	°C	
Soldering Temperature <sup>2</sup>	Tsoı	260°C For 5 Seconds		

#### Notes

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

<sup>\*2: 1.66</sup>mm below package base.

### Round LED

### 5mm, Yellow multicomp PRO

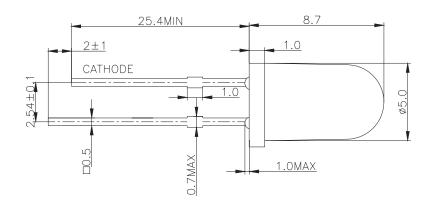
Electrical / Optical Characterisitics at T <sub>A</sub> = 25°C						
Parameter	Symbol	Min.	Тур.	Max	Unit	Test Conditions
Forward Voltage	VF	1.7	2	2.5	V	IF=20mA
Reverse Current	IR		_	10	μΑ	VR=5V
Dominant Wavelength	λd	585	588	594	nm	
Peak Wavelength	λР	_	590	_	nm	
Spectral line Half-width	Δλ	_	15	_	nm	IF=20mA
Luminous Intensity	lv	1000	1700	2500	mcd	
Power Angle	201/2	_	15	_	Deg.	

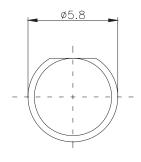
#### Remarks:

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**





Dimensions: Millimetres

### Notes:

- 1. Tolerance is ±0.25 unless otherwise noted.
- 2. Lead spacing is measured where the leads emerge from the package.
- 3. Specifications are subject to change without notice.
- 4. The design and working current for LED is not less than 2mA.

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### **VF Rank**

Dank	VF(V)		Condition
Rank	Min	Max	- Condition
A1A2	1.7	1.9	IF=20mA
B1B2	1.9	2.1	
C1C2	2.1	2.3	
D1D2	2.3	2.5	

Tolerance: ±0.1V

### λD Rank

Rank	λD (nm)		Condition
	Min	Max	Condition
Y4	586	588	- IF=20mA
Y5	588	590	
Y6	590	592	
Y7	592	594	

Tolerance : ±0.1nm

### **IV Rank**

Rank	IV(n	Condition		
Kalik	Min	Max	Condition	
N	1000	1700	- IF=20mA	
0	1700	2500		

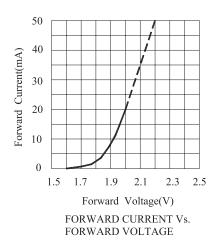
Tolerance : ±15%

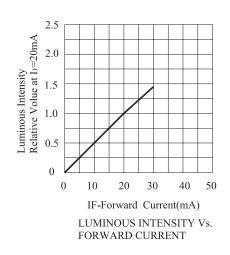


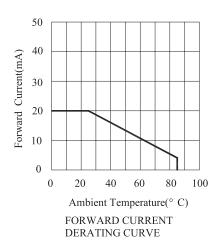
# Round LED 5mm, Yellow

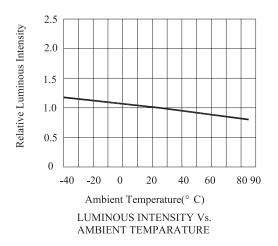


### Typical Electrical/Optical Characteristics Curves



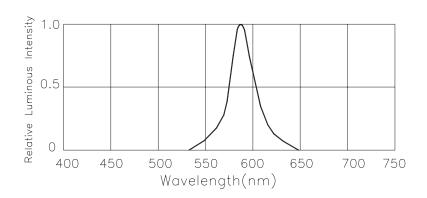


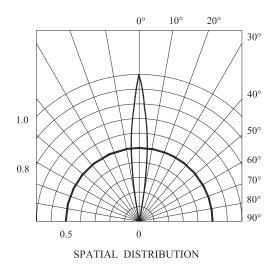




## Round LED 5mm, Yellow







#### **Part Number Table**

Description	Part Number
Round LED, Yellow, 590nm, 15°, 1700mcd, Through hole	MP008550

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