

# Round LED

## 3mm, Yellow

multicomp **PRO**

RoHS  
Compliant



### Features

- 3mm Rounded LED Lamps
- Low power consumption
- Excellent product quality and reliability
- Lead-free device

### Applications

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

### Device Selection Guide

Part No.	Chip		Lens color
	Material	Emitted color	
MP008529			Water Clear
	AlGaInP	Yellow	

### 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 Δ	

Notes:

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

\*2: Δ At the position of 3mm below package base.

\*3: ▲ Please refer to the curve of forward current vs. temperature

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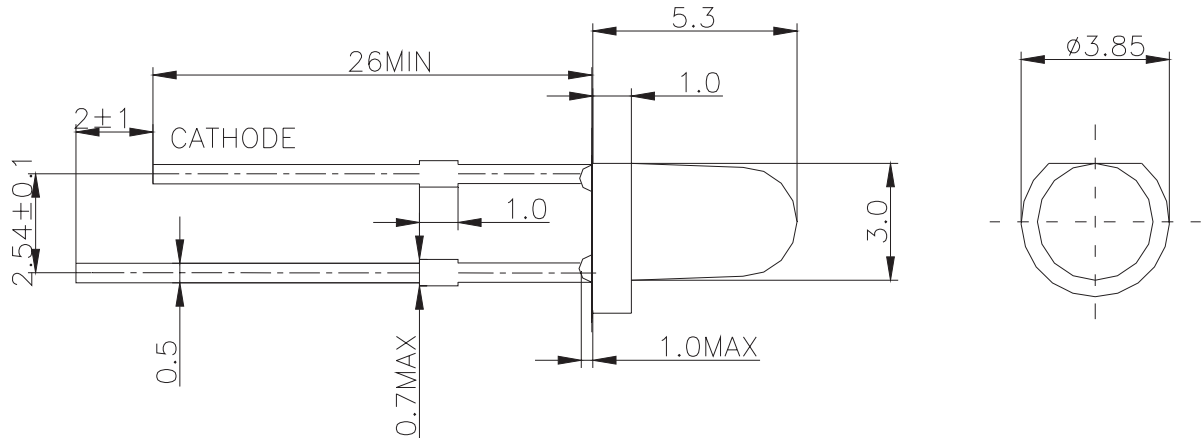
Electrical / Optical Characteristics at T <sub>A</sub> = 25°C						
Parameter	Symbol	Min.	Typ.	Max	Unit	Test Conditions
Forward Voltage	V <sub>F</sub>	1.8	2	2.6	V	IF=20mA
Reverse Current	I <sub>R</sub>	—	—	10	μA	VR=5V
Dominant Wavelength	λ <sub>d</sub>	585	592	594	nm	IF=20mA
Peak Wavelength	λ <sub>P</sub>	—	595	—	nm	
Spectral line Half-width	Δλ	—	15	—	nm	
Luminous Intensity	I <sub>v</sub>	1700	3000	3800	mcd	
Power Angle	2θ <sub>1/2</sub>	—	30	—	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

### 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

Rank	VF(V)		Condition
	Min	Max	
A1B1	1.8	2	IF=20mA
B2C1	2	2.2	
C2D1	2.2	2.4	
D2E1	2.4	2.6	

Tolerance :  $\pm 0.1V$

### $\lambda D$ Rank

Rank	$\lambda D$ (nm)		Condition
	Min	Max	
Y3Y4	584	586	IF=20mA
Y4Y5	586	588	
Y5Y6	588	590	
Y6Y7	590	592	
Y7Y8	592	594	

Tolerance :  $\pm 0.1nm$

### IV Rank

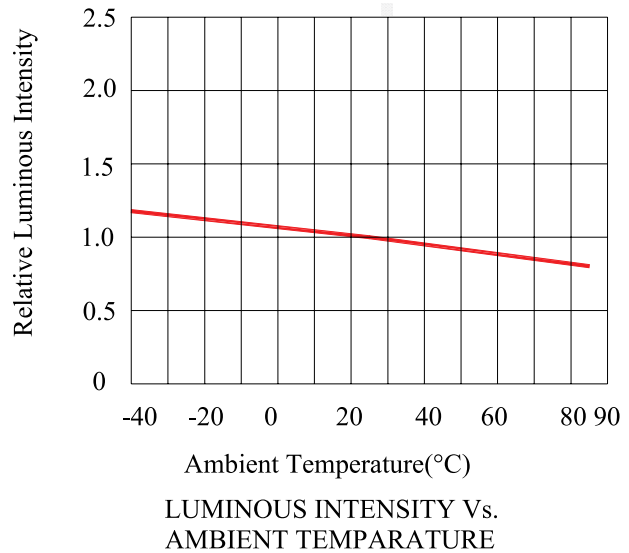
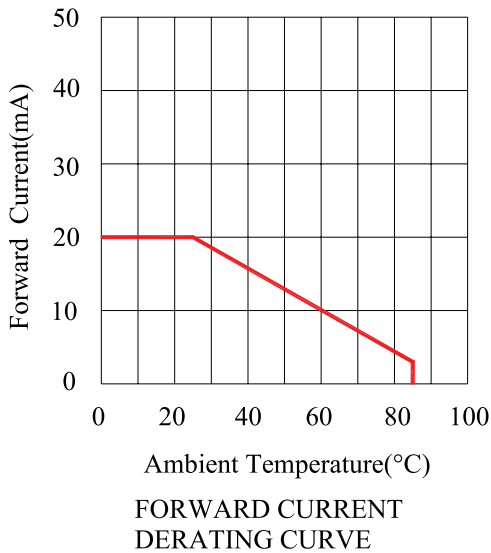
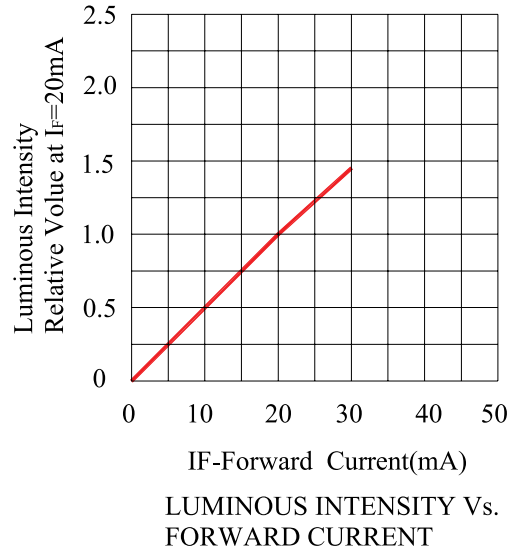
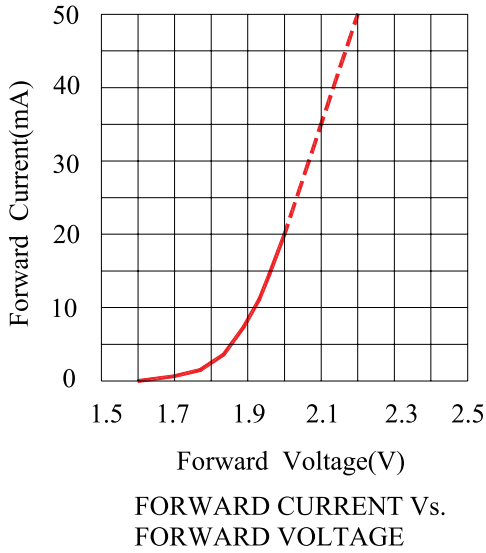
Rank	IV(mcd)		Condition
	Min	Max	
O	1700	2500	IF=20mA
P	2500	3800	

Tolerance :  $\pm 15\%$

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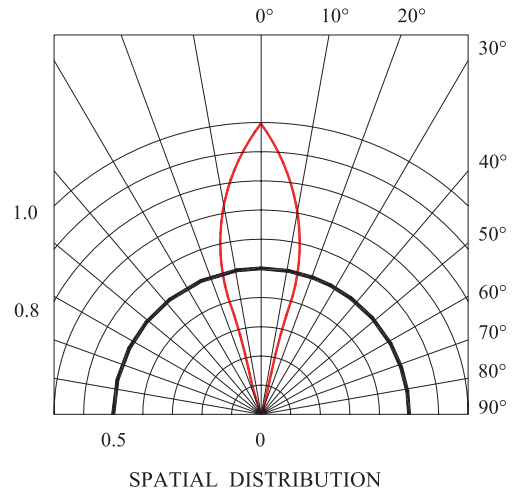
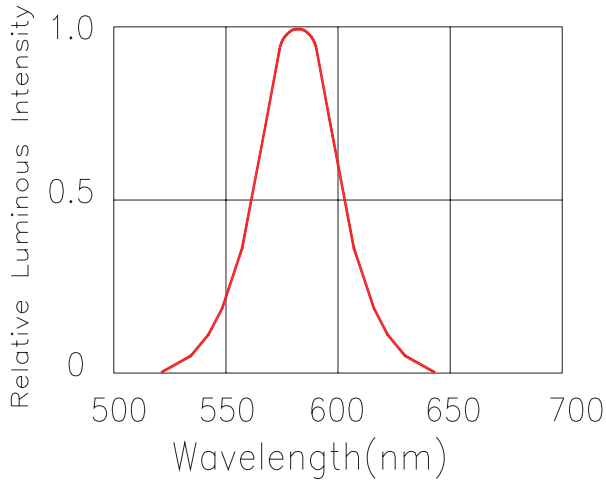
### Typical Electrical/Optical Characteristics Curves ( Ta=25°C Unless Otherwise Noted )



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### Part Number Table

Description	Part Number
Round LED, Yellow, 595nm, 30°, 3000mcd, Through hole	MP008529

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