Round LED 5mm, Yellow



RoHS Compliant



Features

- 5mm 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 indicatiors

Device Selection Guide				
Part No.	Chip		Lens color	
MP008549	Material	Emitted color	Water Clear	
	AlGalnP	Yellow	Water Clear	

Absolute Maximum Ratings: (T _A = 25°C)				
Parameter	Symbol	Value	Unit	
Power Dissipation	Po	50	mW	
Forward Current	lF	30	mA	
Peak Forward Current*1	IFP	100	mA	
Reverse Voltage	VR	5	V	
Operating Temperature	Topr	-40 to +85 ▲	°C	
Storage Temperature	Тѕтс	-40 to +85	°C	
Soldering Temperature*2	Tsoı	260°C For 5 Seconds Δ		

Notes

- *1: Pulse width≤0.1ms, Duty cycle≤1/10
- *2: ΔAt the position of 3mm below package base.
- *3: ▲ Plese refer to the curve of forward current vs. temperature

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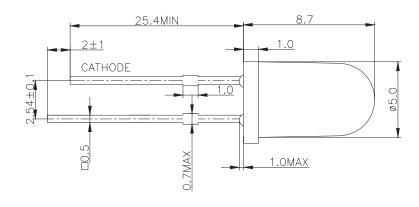
Electrical / Optical Characterisitics at T _A = 25°C						
Parameter	Symbol	Min.	Тур.	Max	Unit	Test Conditions
Forward Voltage	VF	1.8	2	2.6	V	IF=20mA
Reverse Current	IR			10	μΑ	VR=5V
Dominant Wavelength	λd	585	590	594	nm	
Peak Wavelength	λP	_	595	_	nm	
Spectral line Half-width	Δλ	_	15	_	nm	IF=20mA
Luminous Intensity	lv	1700	3000	5700	mcd	
Power Angle	201/2	_	15	_	Deg.	

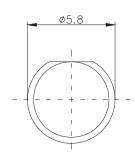
Remarks:

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%

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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Forward Voltage Combination (V at 20mA)

Donk	VF(V)		Condition
Rank	Min	Max	Condition
A2B1	1.8	2	IF=20mA
B2C1	2	2.2	
C2D1	2.2	2.4	
D2E1	2.4	2.6	

Tolerance: ±0.1V

Dominant Wavelength Combination (λD at 20mA)

Dank	λD (nm)		Condition
Rank	Min	Max	Condition
Y3	584	586	
Y4	586	588	
Y5	588	590	IF=20mA
Y6	590	592	
Y7	592	594	

Tolerance: ±0.1nm

Luminous Intensity Combination (mcd at 20mA)

Donk	IV(mcd)		Condition
Rank	Min	Max	Condition
0	1700	2500	
Р	2500	3800	IF=20mA
P1	3800	5700	

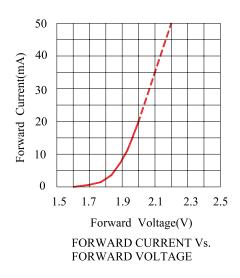
Tolerance: ±15%

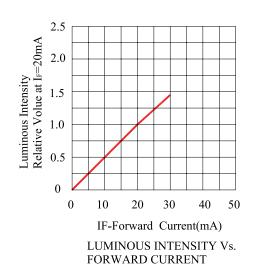


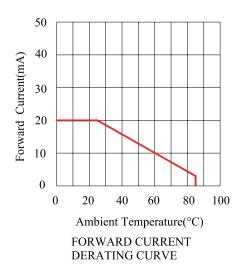
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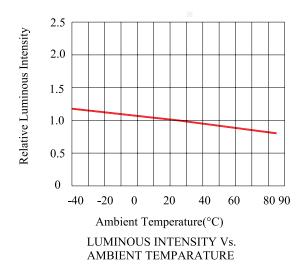
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Typical Electrical/Optical Characteristics Curves



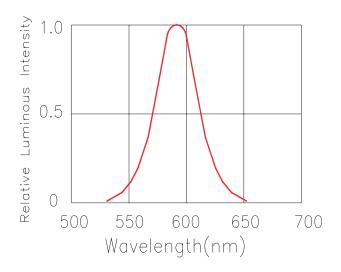


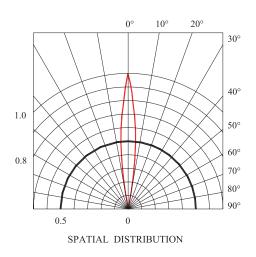




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Part Number Table

Description	Part Number
Round LED, Yellow, 595nm, 15°, 3000mcd, Through hole	MP008549

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