Round LED 3mm, Red/Yellow Green







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 indicatiors

Device Selection Guide						
Part No.	Ch	Lens color				
	Material	Emitted color				
MP008531	AlGalnP	Red	White Diffused			
	GaP	Yellow Green				

Absolute Maximum Ratings: (T _A = 25°C)						
		Value				
Parameter	Symbol	Red	Yellow Green	Unit		
Power Dissipation	PD	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				

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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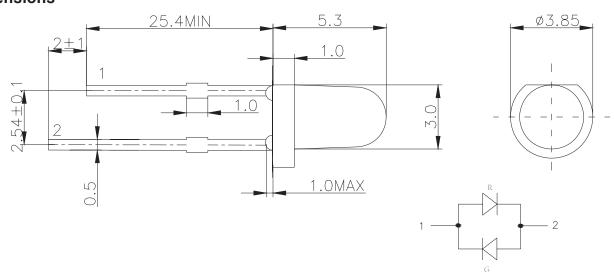
Electrical / Optical Characterisitics at T _A = 25°C							
Parameter		Symbol	Min.	Тур.	Max	Unit	Test Conditions
Forward Voltage	Red	VF	1.8	2.2	2.6	V	- IF=20mA
	Yellow Green	VF	1.8	2.1	2.6	V	
Luminous Intensity	Red	lr	_	_	10	μA	VR=5V
	Yellow Green	IR		_	10	μA	
Dominant Wavelength	Red	λd	618	621	628	nm	- IF=20mA
	Yellow Green	λd	565	571	575	nm	
Peak Wavelength	Red	λP	_	630	_	nm	
	Yellow Green	λP		570	_	nm	
Spectral line Half-width	Red	Δλ		18	_	nm	
	Yellow Green	Δλ	_	17	_	nm	
Luminous Intensity	Red	lv	_	980	_	mcd	
	Yellow Green	lv	_	95	_	mcd	
Power Angle		201/2	_	R:46 K:50	_	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



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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Dimensions: Millimetres

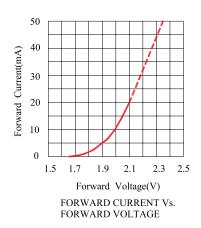
Round LED

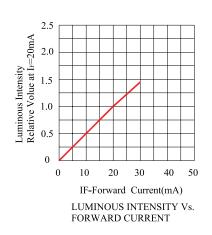
3mm, Red/Yellow Green

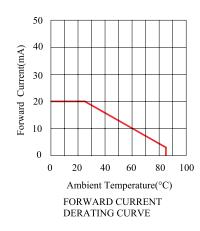


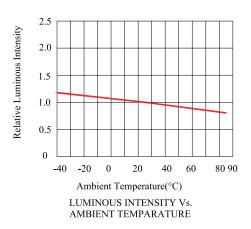
Typical Electrical/Optical Characteristics Curves (Ta=25°C Unless Otherwise Noted)

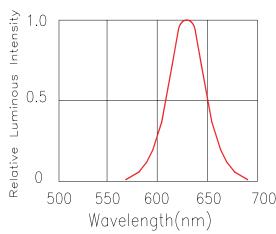
Red

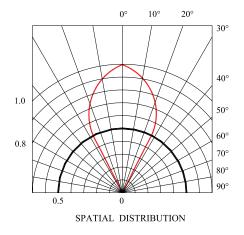












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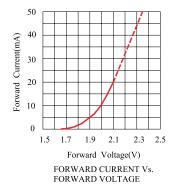


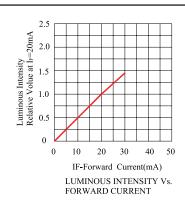
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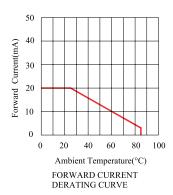
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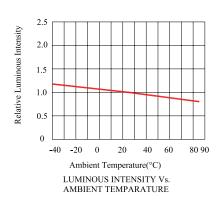
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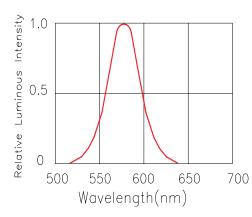
Yellow Green

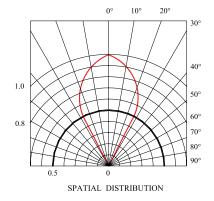












Part Number Table

Description	Part Number
Round LED, Red/Yellow Green, 630nm/570nm, 46°/50°,980mcd/95mcd, Through hole	MP008531

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