

Round LED

5mm, Red/Green

multicomp **PRO**

RoHS
Compliant



Features

- Low power consumption
- Excellent product quality and reliability
- I,c. compatible
- Lead-free device

Applications

- Status indicators
- Commercial use
- Backlights
- Advertising Signs

Device Selection Guide

Part No.	Chip		Lens color
MP008546	Material	Emitted color	White Diffused
	AlGaInP	Red	
	InGaN	Green	

Absolute Maximum Ratings: (T_A = 25°C)

Parameter	Symbol	Value		Unit
		Red	Green	
Power Dissipation	P _D	50	120	mW
Forward Current	I _F	30		mA
Peak Forward Current ^{*1}	I _{FP}	100		mA
Reverse Voltage	V _R	5		V
Operating Temperature	T _{OPR}	-40 to +85		°C
Storage Temperature	T _{STG}	-40 to +85		°C
Soldering Temperature ^{*2}	T _{SOI}	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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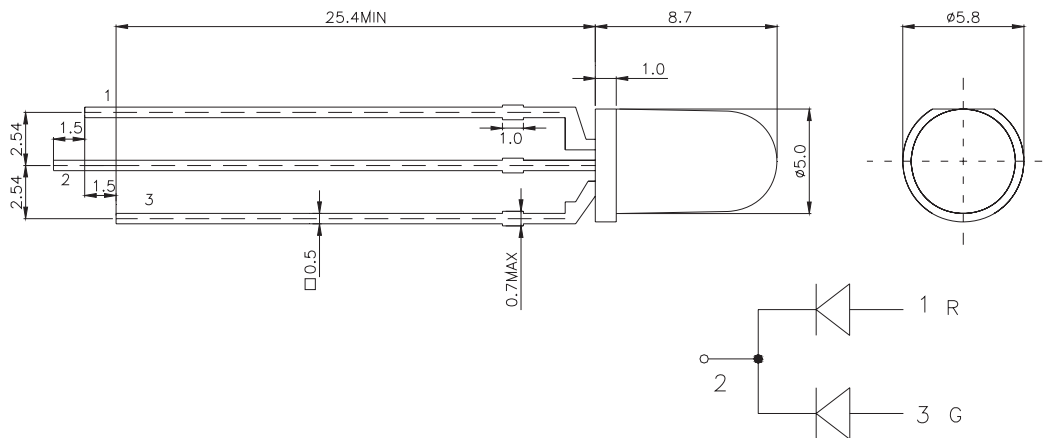
Electrical / Optical Characteristics at T _A = 25°C							
Parameter		Symbol	Min.	Typ.	Max	Unit	Test Conditions
Forward Voltage	Red	V _F	1.8	2	2.6	V	I _F =20mA
	Green	V _F	2.8	3.2	3.6	V	
Luminous Intensity	Red	I _R	—	—	10	μA	V _R =5V
	Green	I _R	—	—	10	μA	
Dominant Wavelength	Red	λ _d	620	625	630	nm	I _F =20mA
	Green	λ _d	518	522	526	nm	
Peak Wavelength	Red	λ _P	—	635	—	nm	
	Green	λ _P	—	515	—	nm	
Spectral line Half-width	Red	Δλ	—	15	—	nm	
	Green	Δλ	—	30	—	nm	
Luminous Intensity	Red	I _v	400	600	1000	mcd	
	Green	I _v	1000	2000	3800	mcd	
Power Angle		2θ _{1/2}	—	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. 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.

Dimensions : Millimetres

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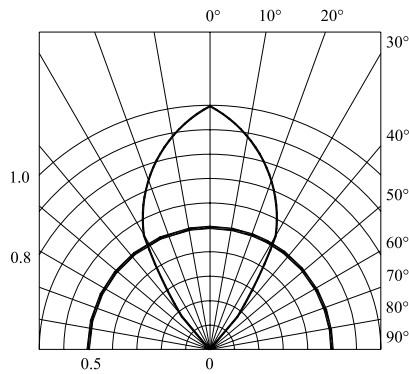
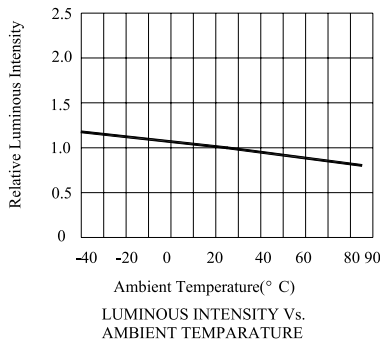
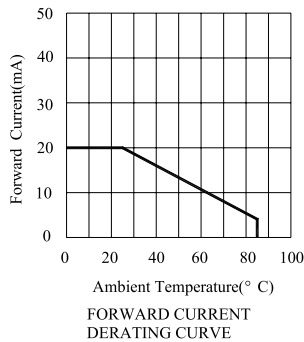
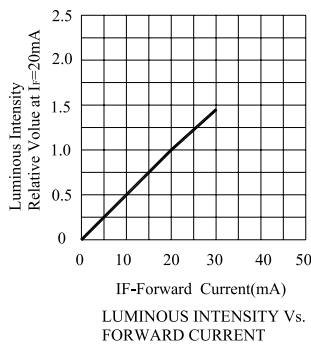
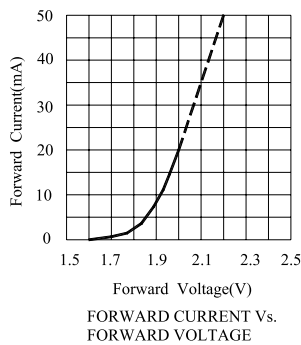
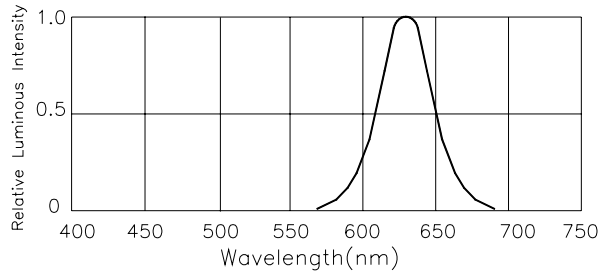
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Typical Electrical/Optical Characteristics Curves

(Ta=25°C Unless Otherwise Noted)

Red

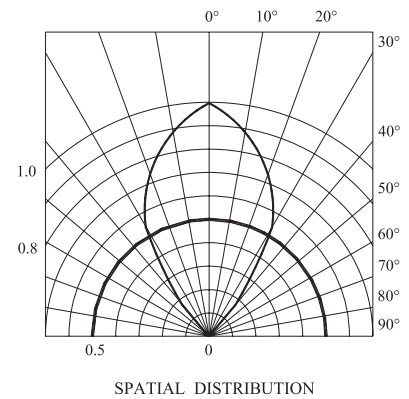
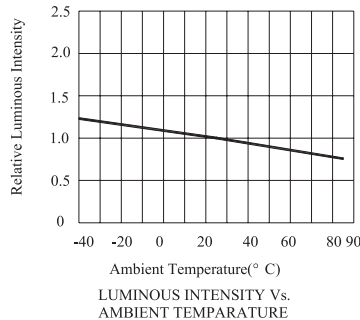
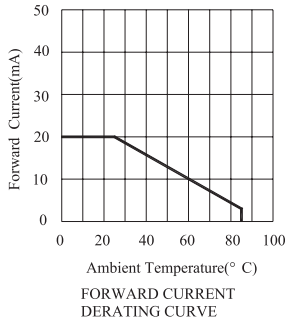
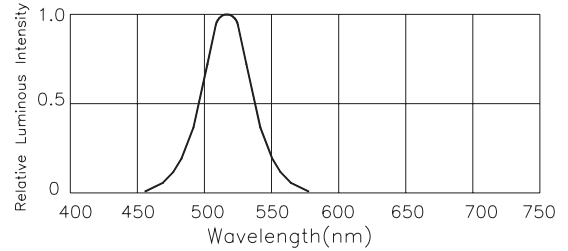
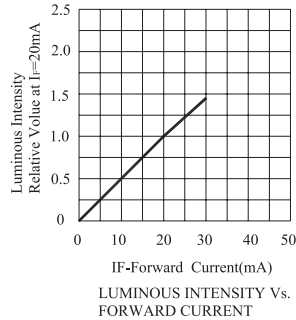
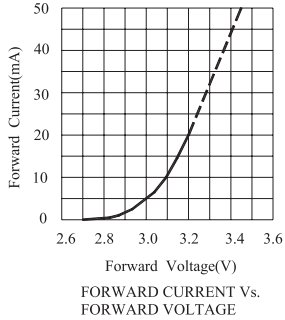


SPATIAL DISTRIBUTION

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Green



Part Number Table

Description	Part Number
Round LED, Red/Green, 635nm/515nm, 60°,600mcd/2000mcd, Through hole	MP008546

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