

Round LED

5mm, Green

multicomp^{PRO}

RoHS
Compliant



Features

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

Applications

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

Device Selection Guide			
Part No.	Chip		Lens color
MP008540	Material	Emitted color	Water Clear
	InGaN	Green	

Absolute Maximum Ratings: (T _A = 25°C)			
Parameter	Symbol	Value	Unit
Power Dissipation	P _D	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: 1.66mm below package base.

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

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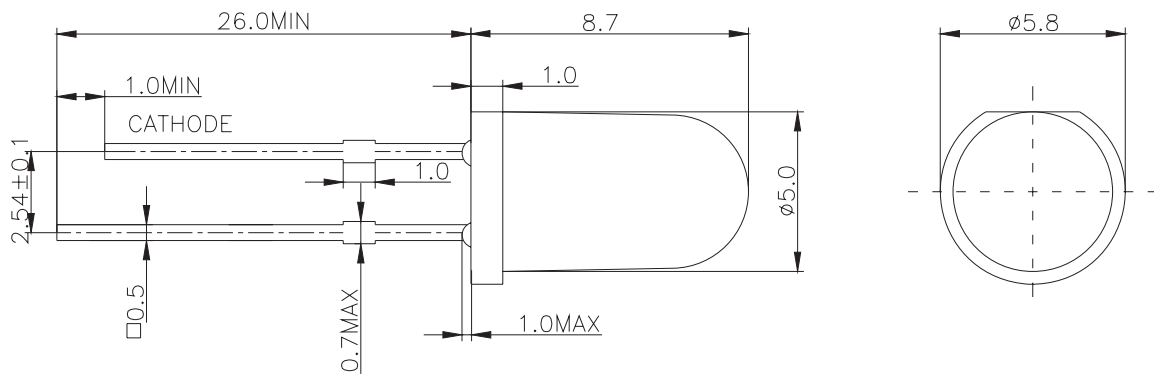
Electrical / Optical Characteristics at T _A = 25°C						
Parameter	Symbol	Min.	Typ.	Max	Unit	Test Conditions
Forward Voltage	V _F	—	3.2	—	V	IF=20mA
Reverse Current	I _R	—	—	10	μA	VR=5V
Dominant Wavelength	λ _d	—	518	—	nm	IF=20mA
Peak Wavelength	λ _P	—	515	—	nm	
Spectral line Half-width	Δλ	—	30	—	nm	
Luminous Intensity	I _v	—	15000	—	mcd	
Power Angle	2θ1/2	—	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.

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VF Rank

Rank	VF(V)		Condition
	Min	Max	
F2G1	2.8	3	IF=20mA
G2H1	3	3.2	
H2I1	3.2	3.4	
I2J1	3.4	3.6	

Tolerance : $\pm 0.1V$

λD Rank

Rank	λD (nm)		Condition
	Min	Max	
G8	514	516	IF=20mA
G9	516	518	
GA	518	520	
GB	520	522	

Tolerance : $\pm 0.1nm$

IV Rank

Rank	IV(mcd)		Condition
	Min	Max	
R	8000	12000	IF=20mA
S	12000	18000	

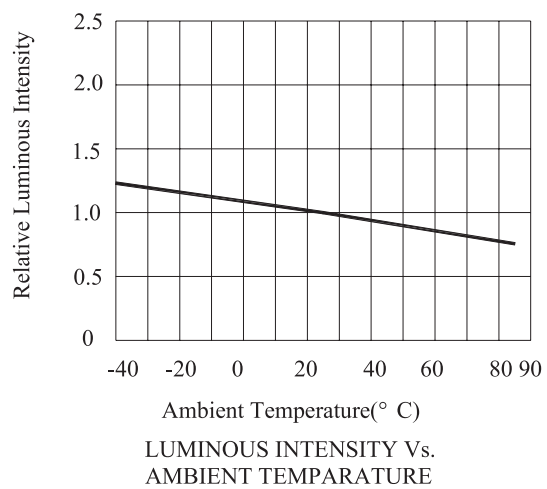
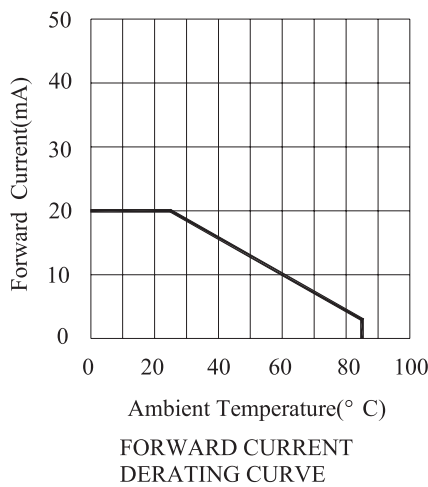
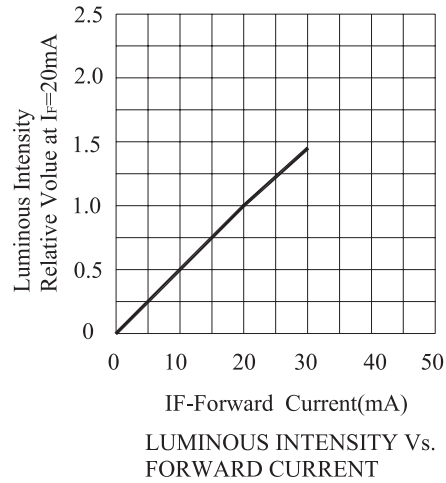
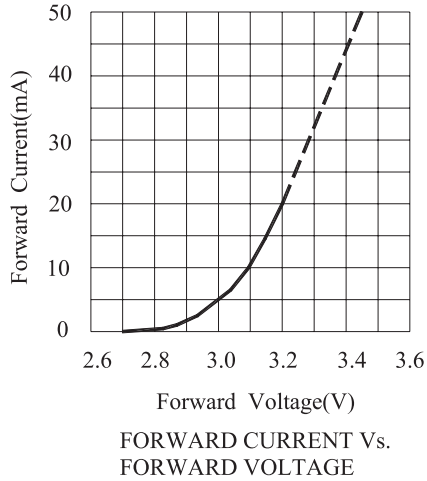
Tolerance : $\pm 15\%$

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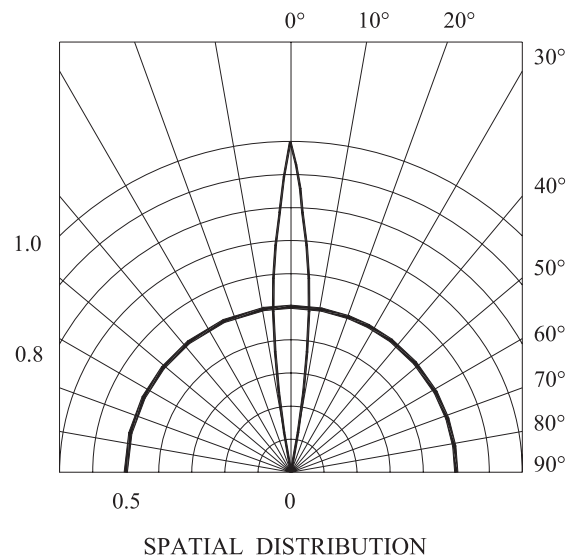
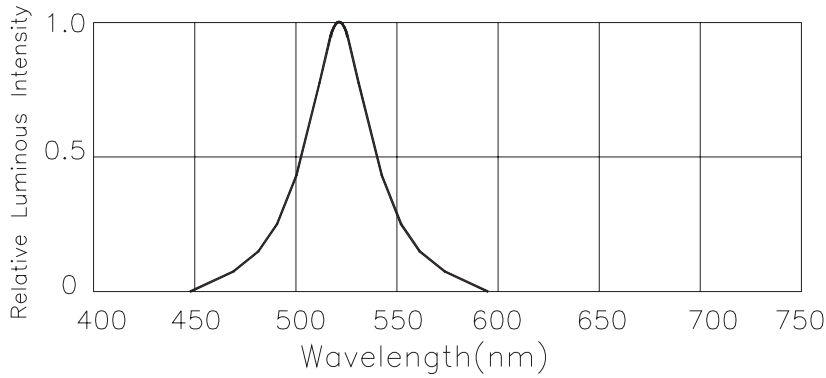
Typical Electrical/Optical Characteristics Curves

(Ta=25°C Unless Otherwise Noted)



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Part Number Table

Description	Part Number
Round LED, Green, 515nm, 15°, 15000mcd, Through hole	MP008540

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