

Round LED

3mm, Blue

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
- Backlights.
- General purpose indicators

Device Selection Guide

Part No.	Chip		Lens color
MP008524	Material	Emitted color	Water Clear
	InGaN	Blue	

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: ΔAt the position of 3mm below package base.

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

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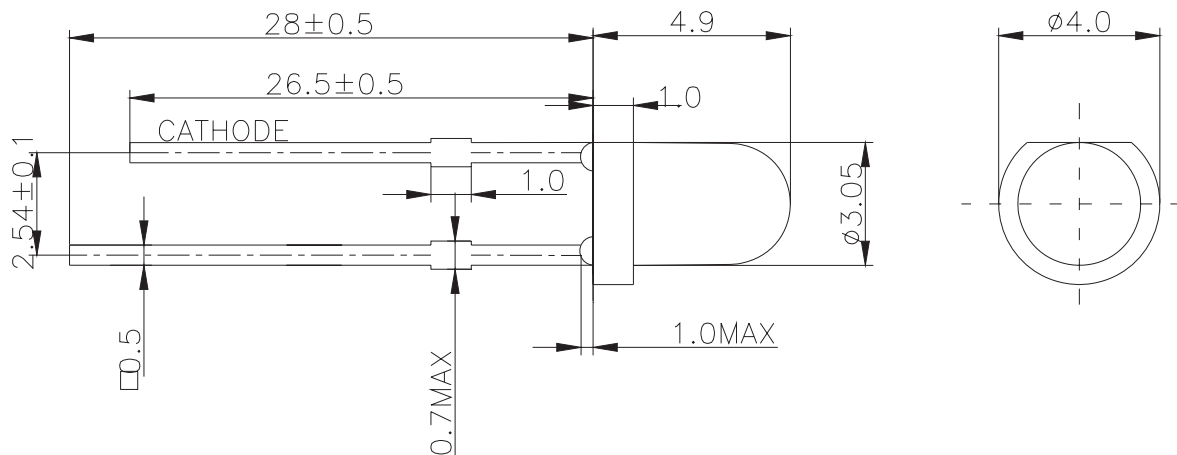
Electrical / Optical Characteristics at T _A = 25°C						
Parameter	Symbol	Min.	Typ.	Max	Unit	Test Conditions
Forward Voltage	V _F	2.7	3	3.5	V	IF=20mA
Reverse Current	I _R	—	—	10	μA	VR=5V
Dominant Wavelength	λ _d	464	468	474	nm	IF=20mA
Peak Wavelength	λ _P	—	465	—	nm	
Spectral line Half-width	Δλ	—	21	—	nm	
Luminous Intensity	I _v	1700	3000	5700	mcd	
Power Angle	2θ _{1/2}	—	20	—	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)

Rank	VF(V)		Condition
	Min	Max	
F1F2	2.7	2.9	IF=20mA
G1G2	2.9	3.1	
H1H2	3.1	3.3	
I1I2	3.3	3.5	

Tolerance : $\pm 0.1V$

Dominant wavelength combination (λD at 20mA)

Rank	λD (nm)		Condition
	Min	Max	
B8	464	466	IF=20mA
B9	466	468	
BA	468	470	
BB	470	472	
BC	472	474	

Tolerance : $\pm 0.1nm$

Luminous Intensity Combination (mcd at 20mA)

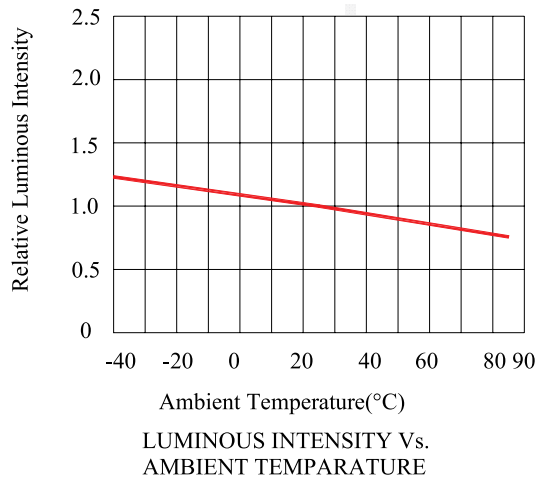
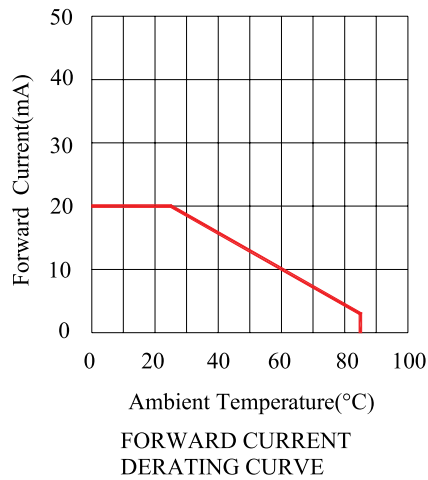
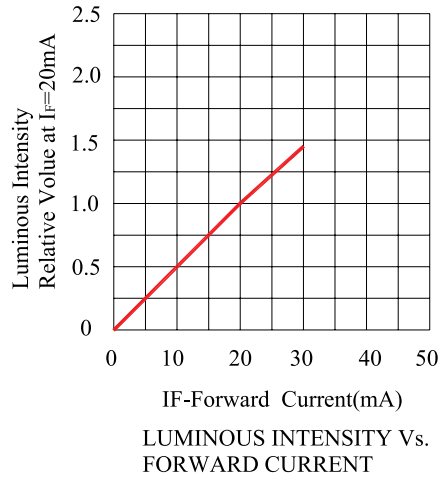
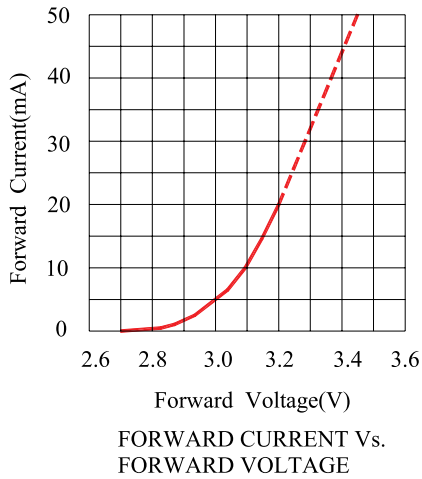
Rank	IV(mcd)		Condition
	Min	Max	
O	1700	2500	IF=20mA
P	2500	3800	
P1	3800	5700	

Tolerance : $\pm 15\%$

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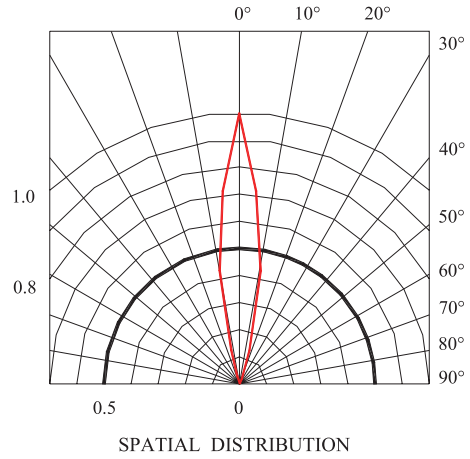
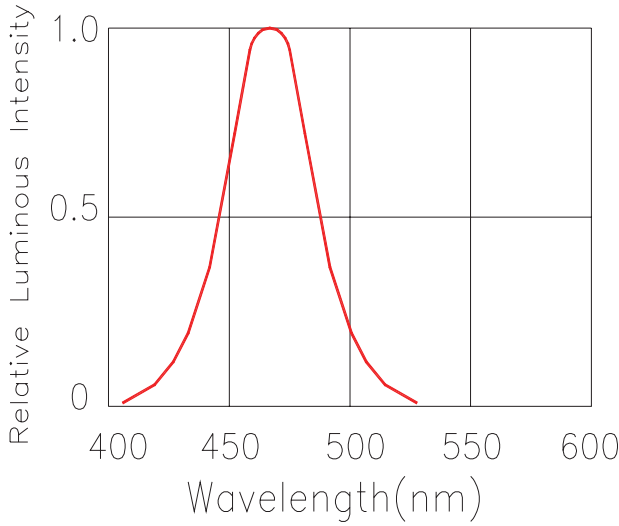
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Typical Electrical/Optical Characteristics Curves (Ta=25°C Unless Otherwise Noted)



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Part Number Table

Description	Part Number
Round LED, Blue, 465nm, 20°,3000mcd, Through hole	MP008524

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