

Round LED

3mm, Red

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
- Backlight.
- General purpose indicators

Device Selection Guide

Part No.	Chip		Lens color
MP008527	Material	Emitted color	Red Diffuse
	AlGInP	Red	

Absolute Maximum Ratings: (T_A = 25°C)

Parameter	Symbol	Value	Unit
Power Dissipation	P _D	50	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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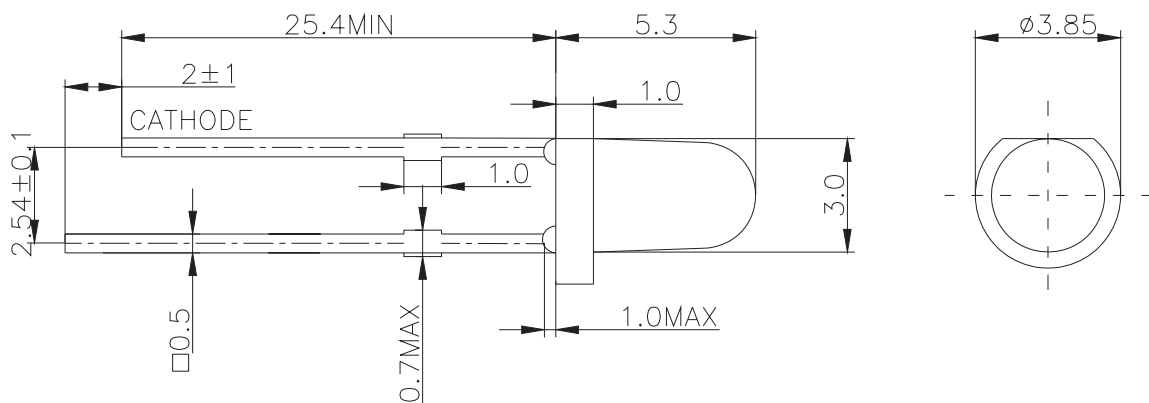
Electrical / Optical Characteristics at T _A = 25°C						
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage	V _F	1.8	2	2.6	V	I _F = 20mA
Reverse Current	I _R	-	-	10	uA	V _R =5V
Dominant Wavelength	λ _d	620	623	630	nm	I _F =20mA
Peak Wavelength	λ _p	-	635	-	nm	
Spectral Line Half-Width	Δλ	-	21	-	nm	
Luminous Intensity	I _V	300	500	700	mcd	
Power Angle	2θ _{1/2}	-	30	-	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.

Dimensions : Millimetres

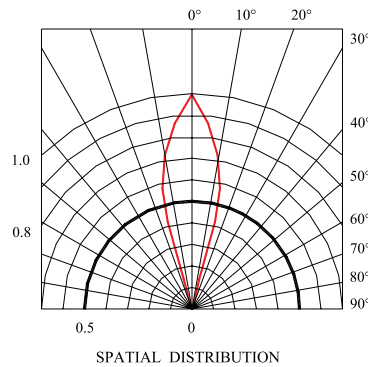
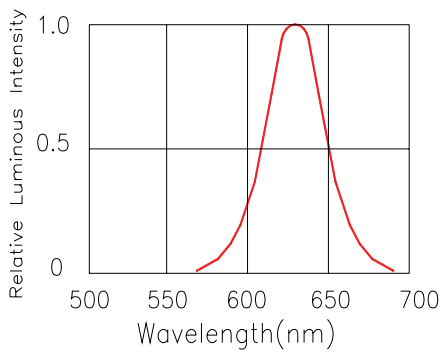
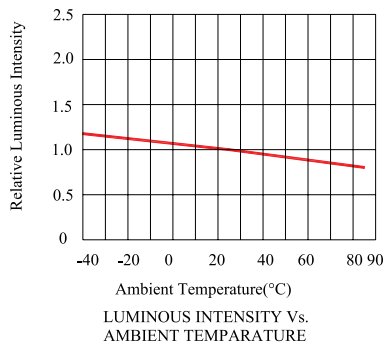
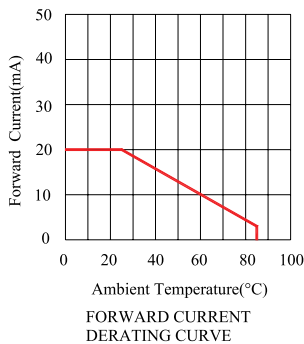
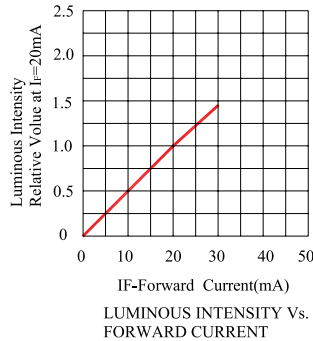
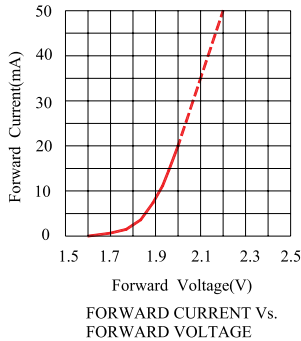
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Typical Electrical/Optical Characteristics Curves



Part Number Table

Description	Part Number
Round LED, Red, 635nm, 30°, 500mcd, Through hole	MP008527

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