



Features

- 2 × 4mm Square LED Lamps
- Low power consumption
- Excellent product quality and reliability
- Lead-free device

**RoHS
Compliant**

Applications

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

Specifications

Emitting Colour	: Red
Lens Colour	: Red Diffused
Material	: AlGaInP

Absolute Maximum Ratings: (T _A = 25°C)			
Parameter	Symbol	Value	Unit
Power Dissipation	P _D	65	mW
Forward Current	I _F	25	mA
Peak Forward Current ^{*1}	I _{FP}	60	mA
Reverse Voltage	V _R	5	V
Operating Temperature	T _{OPR}	-40°C to +85°C ▲	
Storage Temperature	T _{STG}	-40°C to +85°C	
Soldering Temperature ^{*2}	T _{SOI}	260°C For 5 Seconds Δ	

Notes:

*1: Pulse width ≤ 0.1ms, Duty cycle ≤ 1/10

*2: Δ At the Position of 3mm below package base.

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

Electrical / Optical Characteristics at T _A = 25°C						
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage	V _F	1.7	2	2.5	V	I _F = 20mA
Reverse Current	I _R	-	-	10	uA	V _R = 5V
Dominant Wavelength	λ _d	618	620	628	nm	I _F = 20mA
Peak Wavelength	λ _p	-	630	-	nm	
Spectral Line Half-Width	Δλ	-	17	-	nm	
Luminous Intensity	I _V	40	85	200	mcd	
Power Angle	2θ _{1/2}	-	180	-	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:

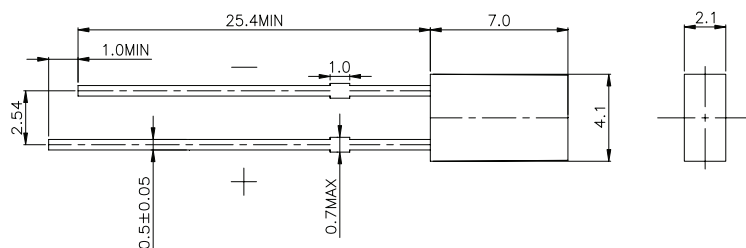
1. Dominant Wavelength: +/- 1nm
2. Chromatic Coordinates: +/- 0.01
3. Luminous Intensity: +/- 15%
4. Forward Voltage: +/- 0.1V

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Single Colour LED

multicompPRO

Dimensions

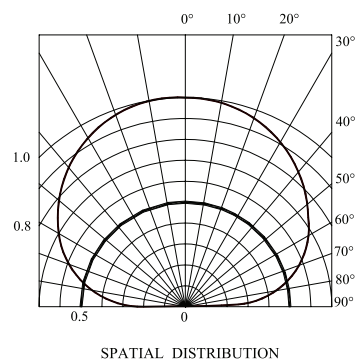
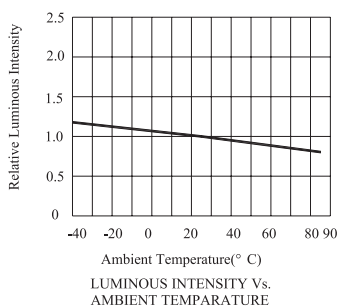
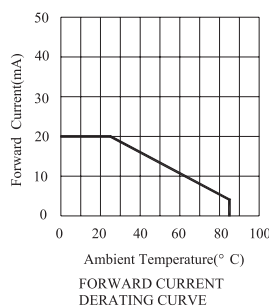
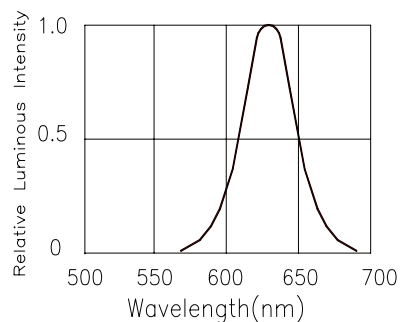
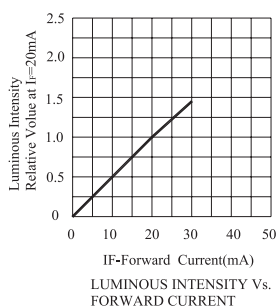
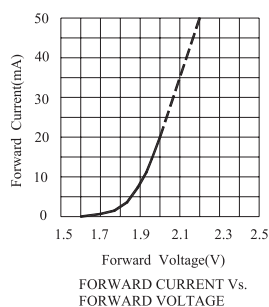


Notes:

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

Typical Electrical/Optical Characteristics Curves



Part Number Table

Description	Part Number
Single Colour LED, Rectangular, 2 × 4 × 7, Red	MP017018

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