

RoHS
Compliant



Features

- 5mm 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

Specifications

Emitting Colour : Red/Green/Blue
Lens Colour : White Diffuse
Material : AlGaInP/InGaN

Absolute Maximum Ratings: (T _A = 25°C)					
Parameter	Symbol	Red	Green	Blue	Unit
Power Dissipation	P _D	60	110		mW
Forward current	I _F	25	30		mA
Peak Forward Current*1	I _{FP}	60	100		
Reverse voltage	V _R	5			V
Operating Temperature	T _{opr}	-40°C to +85°C			
Storage Temperature	T _{STG}	-40°C to +85°C			
Storage Temperature *2	T _{SOL}	260°C For 5 Seconds			

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

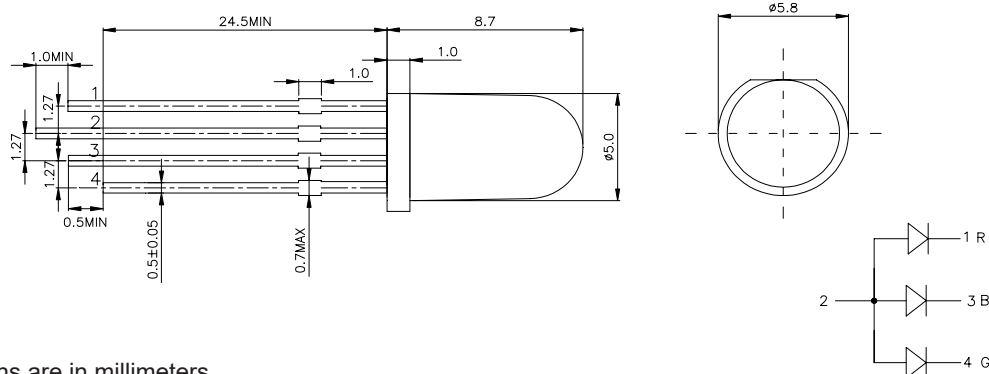
Electrical / Optical / Characteristics at T _A = 25°C							
Parameter	Symbol		Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	Red	V _F	1.80	2.0	2.40	V	I _F =20mA
	Green		2.80	3.20	3.40		
	Blue		2.80	3.20	3.40		
Reverse Current	Red	I _R	—	—	10	μA	V _R =5V
	Green		—	—	10		
	Blue		—	—	10		
Peak Wavelength	Red	λ _D	638	645	650		I _F =20mA
	Green		515	520	525		
	Blue		464	470	474		
Luminous Intensity	Red	I _v	400	500	1000	mcd	
	Green		1000	1300	2500		
	Blue		250	350	600		
Power Angle		2θ _{1/2}	—	80	—	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:

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

Dimensions

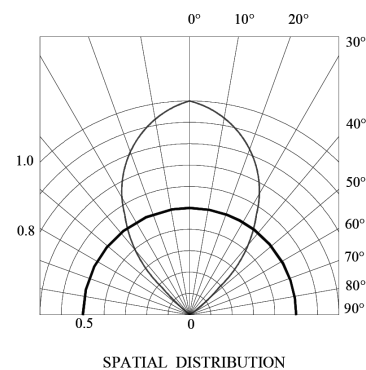
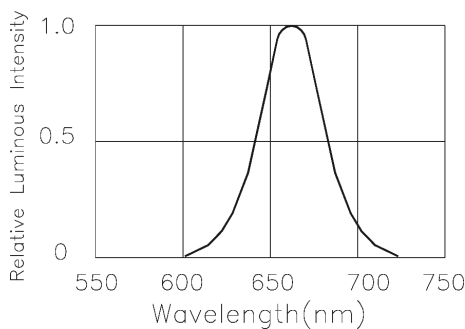
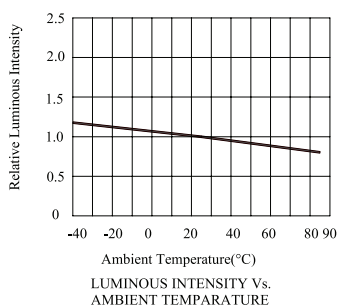
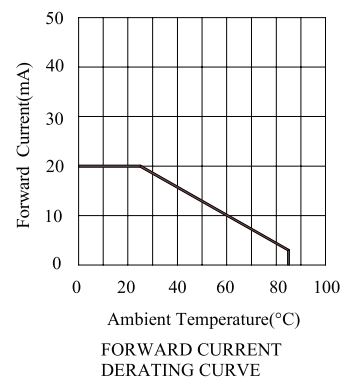
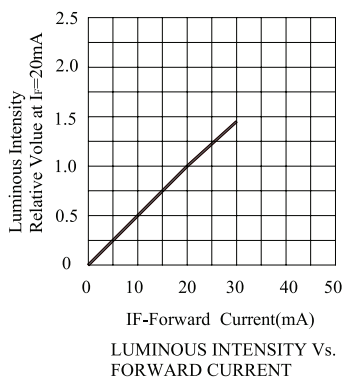
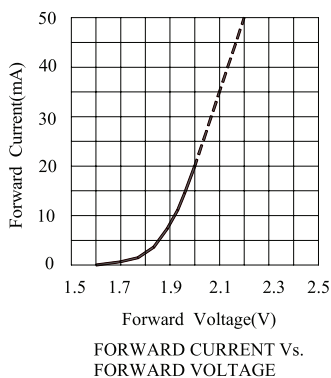


Notes:

1. All dimensions are in millimeters.
2. Tolerance is ±0.25 unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.
5. The design and working Current for Led is not less than 2mA.

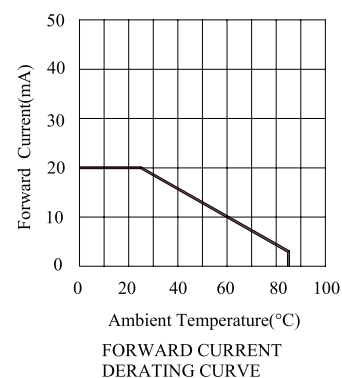
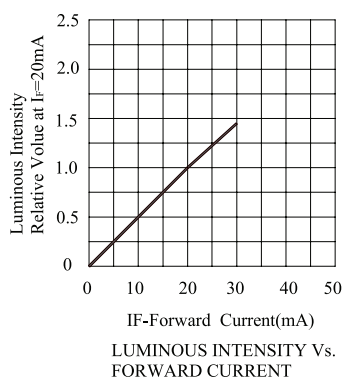
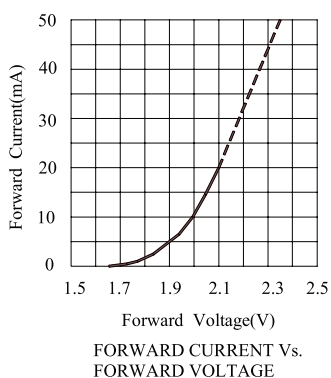
Typical Electrical/Optical Characteristics Curves

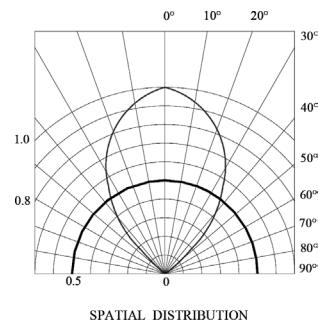
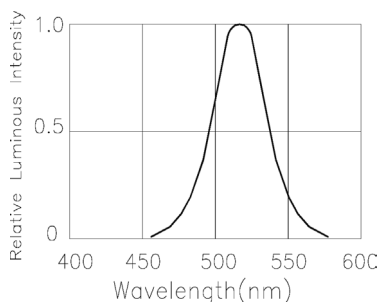
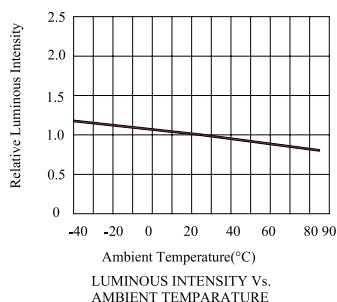
Red



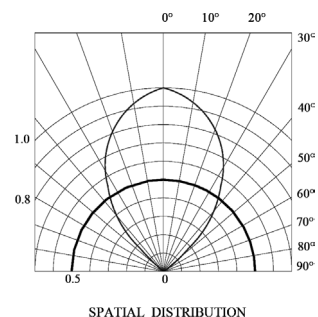
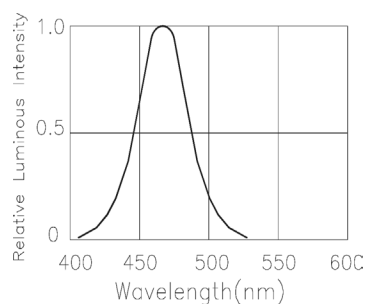
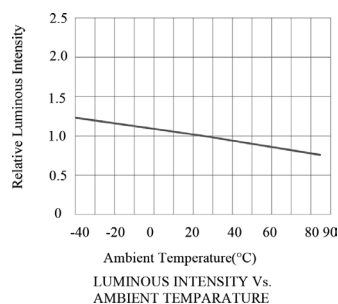
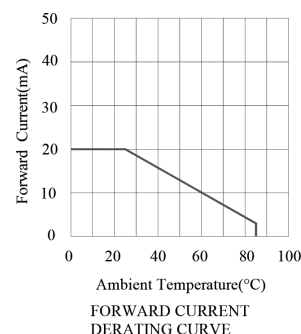
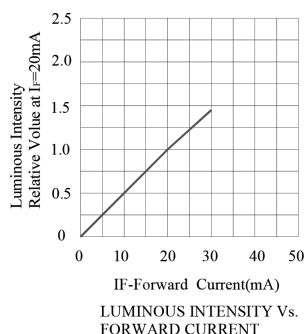
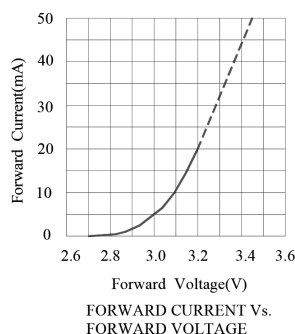
Typical Electrical/Optical Characteristics Curves

Kelly





Blue



Part Number Table

Description	Part Number
Multi Colour LED, Common Anode, Red, Green and Blue, 5mm	MP017043

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