

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/Kelly
Lens Colour : Water Clear
Material : AlGaInP

Absolute Maximum Ratings: (T _A = 25°C)				
Parameter	Symbol	Red	Kelly	Unit
Power Dissipation	P _D	65		mW
Forward current	I _F	25		mA
Peak Forward Current*1	I _{FP}	60		
Reverse voltage	V _R	5		V
Operating Temperature	T _{opr}	-40°C to +85°C		
Storage Temperature	T _{STG}	-40°C to +100°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

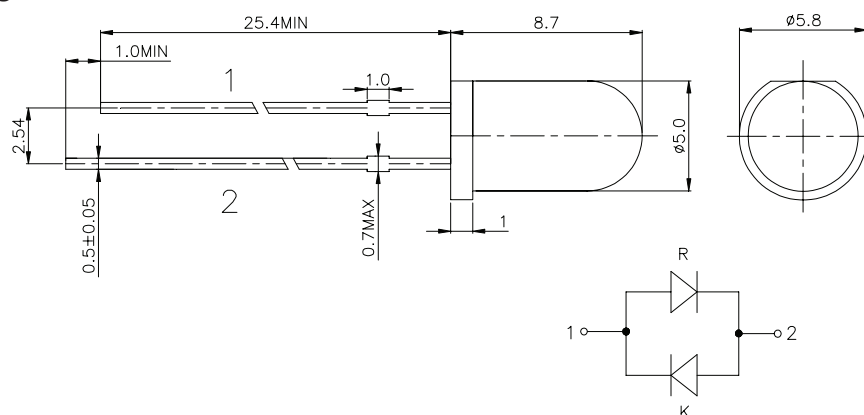
Electrical / Optical / Characteristics at T _A = 25°C							
Parameter	Symbol		Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	Red	V _F	1.7	2.2	2.5	V	I _F =20mA
	Kelly		1.7	2.1	2.5		
Dominant Wavelength	Red	λ _D	618	623	628	nm	
	Kelly		565	570	575		
Peak Wavelength	Red	λ _P	-	630	—		
	Kelly		-	570	—		
Spectral line Half-width	Red	Δλ	-	19	—		
	Kelly		-	15	—		
Luminous Intensity	Red	I _V	6000	12000	30000	mcd	
	Kelly		1200	2500	6100		
Power Angle		2θ _{1/2}	-	10	—	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:

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

Dimensions

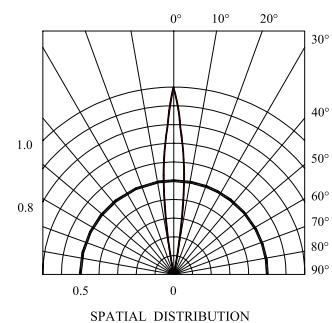
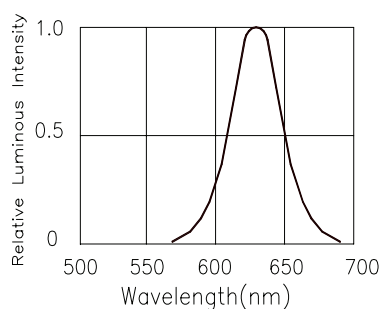
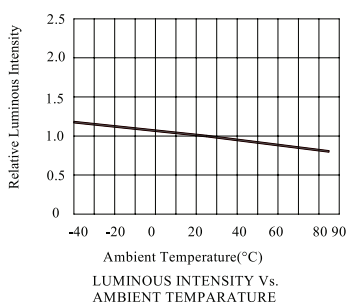
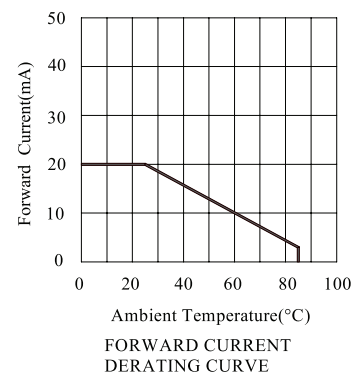
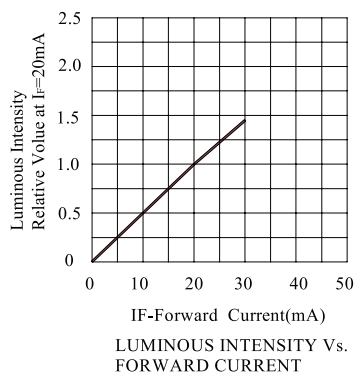
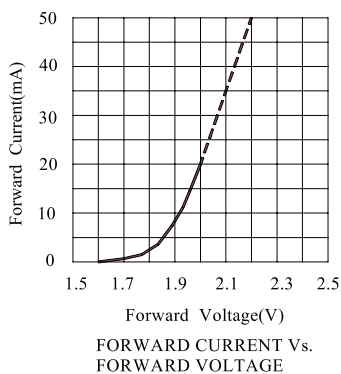


Notes:

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.

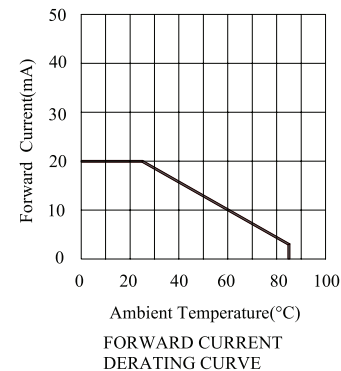
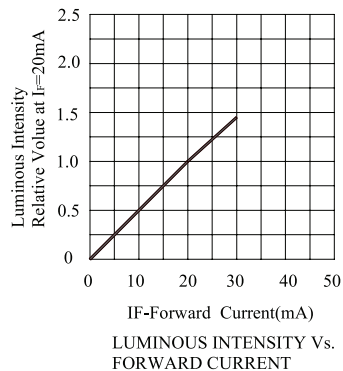
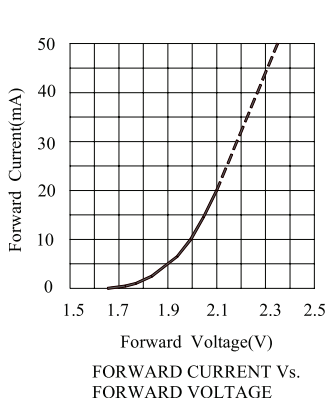
Typical Electrical/Optical Characteristics Curves

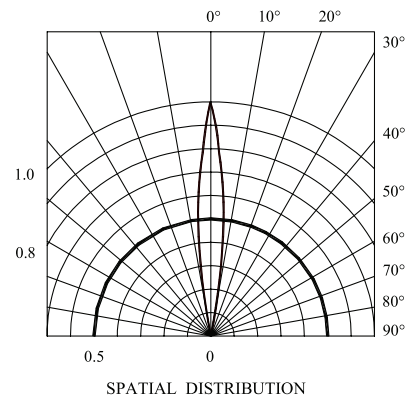
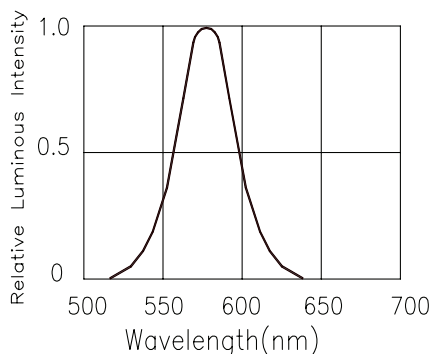
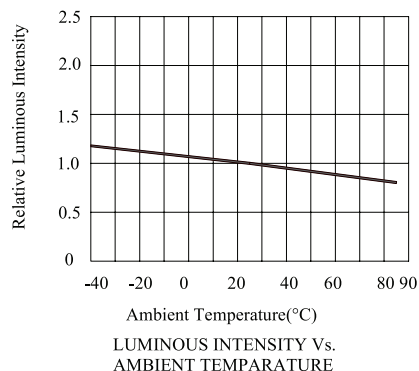
Red



Typical Electrical/Optical Characteristics Curves

Kelly





Part Number Table

Description	Part Number
Multi Colour LED, Anti-Parallel, Red and Kelly, 5mm, PD 60mW and 65mW	MP017040

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