

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 : White Diffuse
Material : GaAsP/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

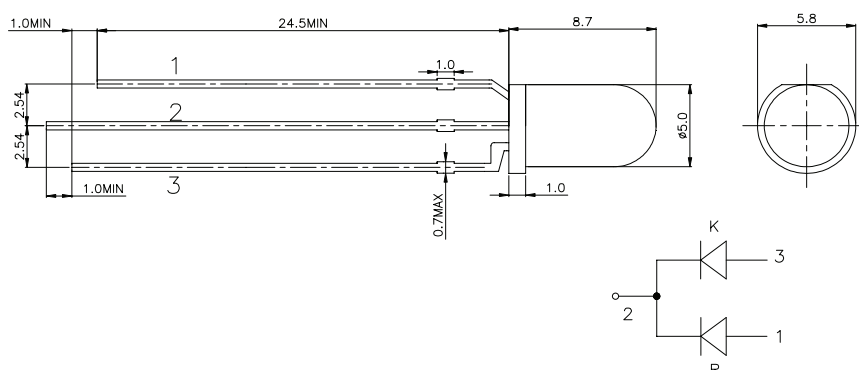
Electrical / Optical / Characteristics at T _A = 25°C							
Parameter	Symbol		Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	Red	V _F	1.7	—	2.5	V	I _F =20mA
	Kelly		1.7	—	2.5		
Reverse Current	Red	I _R	—	—	10	μA	V _R =5V
	Kelly		—	—	10		
Dominant Wavelength	Red	λ _D	620	—	635	nm	I _F =20mA
	Kelly		564	—	574		
Peak Wavelength	Red	λ _P	—	645	-		
	Kelly		—	565			
Spectral line Half-width	Red	Δλ	—	42			
	Kelly		—	17			
Luminous Intensity	Red	I _V	26	50		mcd	
	Kelly		32	60			
Power Angle		2θ _{1/2}	—	K:50 R:40	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

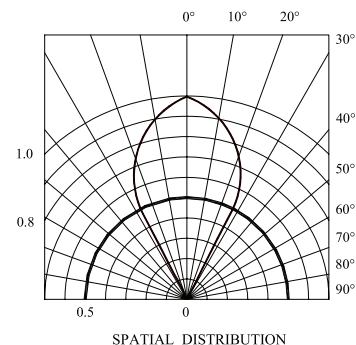
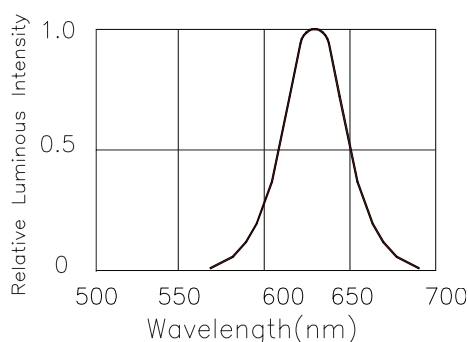
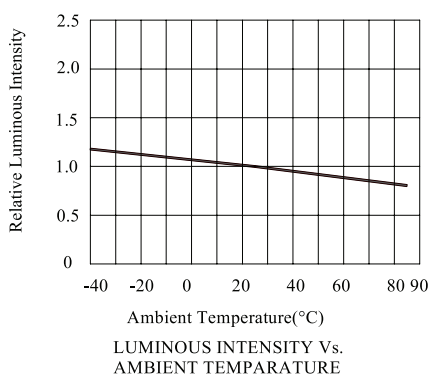
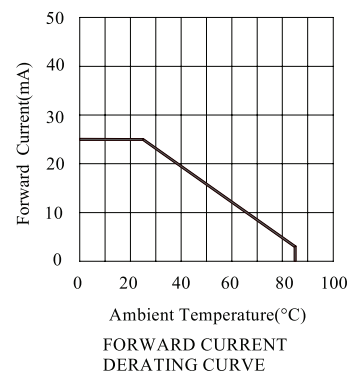
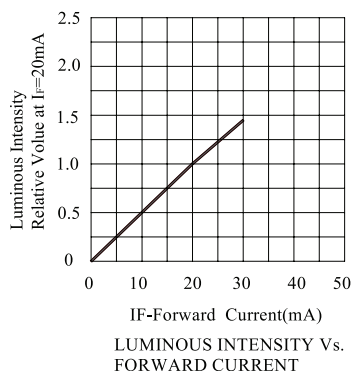
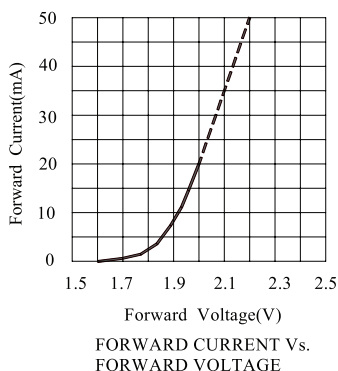


Notes:

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.

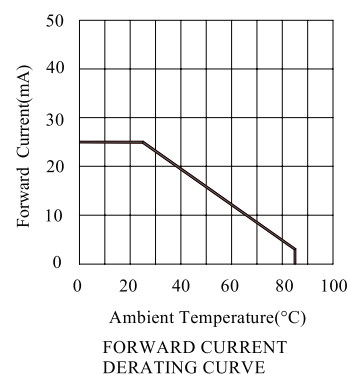
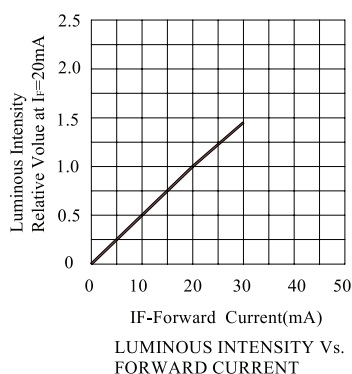
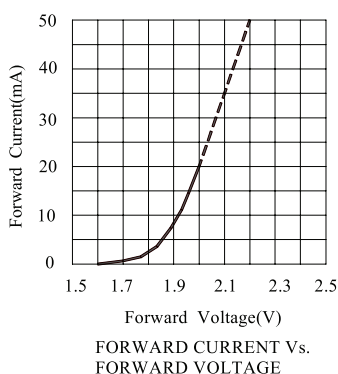
Typical Electrical/Optical Characteristics Curves

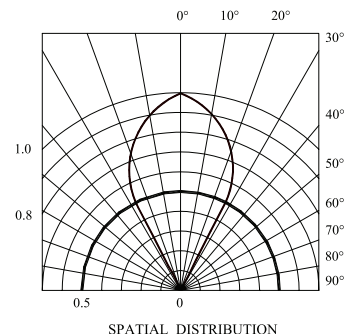
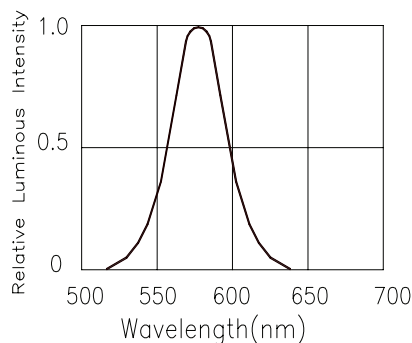
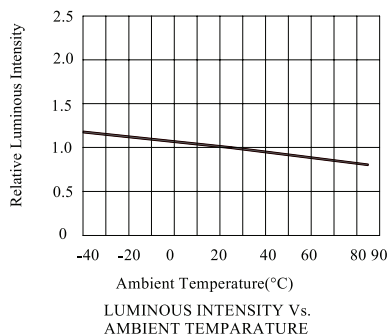
Red



Typical Electrical/Optical Characteristics Curves

Kelly





Part Number Table

Description	Part Number
Multi Colour LED, Common Cathode, Red and Kelly, 5mm, IV 50mcd and 60mcd	MP017042

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