

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

Specifications

Emitting Colour : Red/Kelly
Lens Colour : White Diffuse
Material : AlGaInP/AlGaInP

Absolute Maximum Ratings: (T _A = 25°C)				
Parameter	Symbol	Red	Kelly	Unit
Power Dissipation	P _D	75		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 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

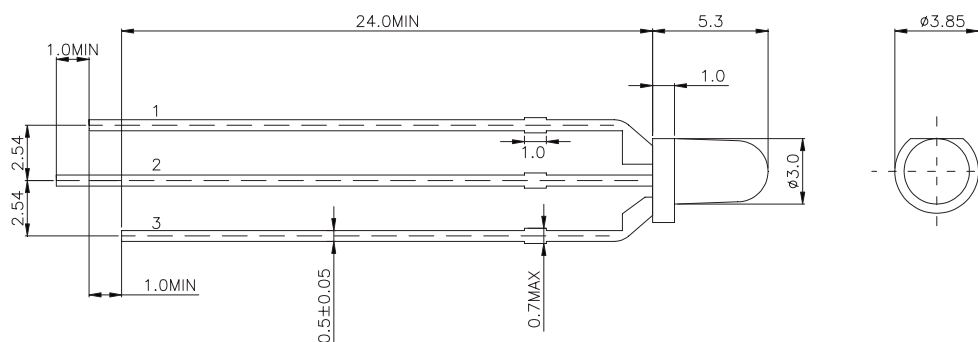
Electrical / Optical / Characteristics at T _A = 25°C							
Parameter	Symbol		Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	VF	Red	-	2	2.5	V	IF=20mA
		Kelly	-	2	2.5		
Reverse Current	IR	Red	-	-	10	μA	VR=5V
		Kelly	-	-	10		
Dominant Wavelength	λD	Red	620	-	630	nm	IF=20mA
		Kelly	565	-	575		
Peak Wavelength	λP	Red	-	630	-		
		Kelly	-	575	-		
Spectral line Half-width	Δλ	Red	-	18	-		
		Kelly	-	17	-		
Luminous Intensity	IV	Red	32	60	-	mcd	
		Kelly	20	40	-		
Viewing Angle	2θ1/2	Red	-	120	-	Deg.	
		Kelly		120	-		

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:

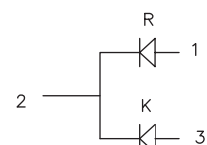
- DominantWavelength: +/-1nm
- Chromatic Coordinates: +/-0.01
- Luminous Intensity: +/-15%
- Forward Voltage: +/-0.1V

Dimensions



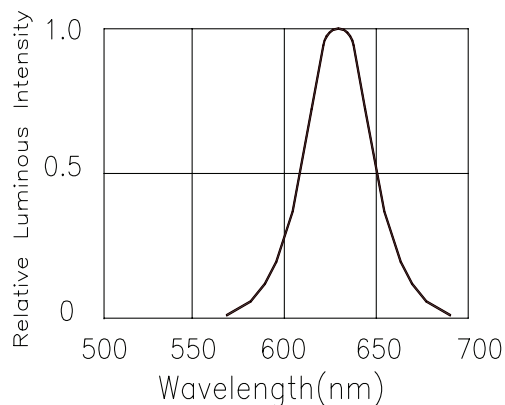
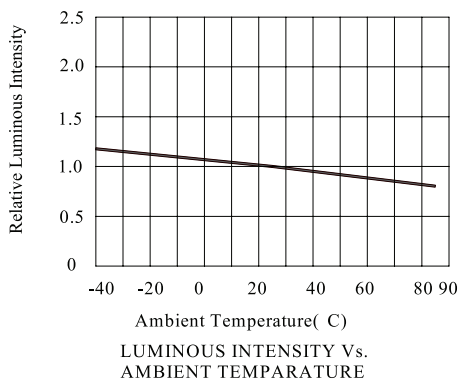
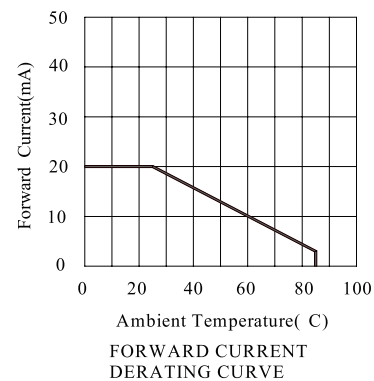
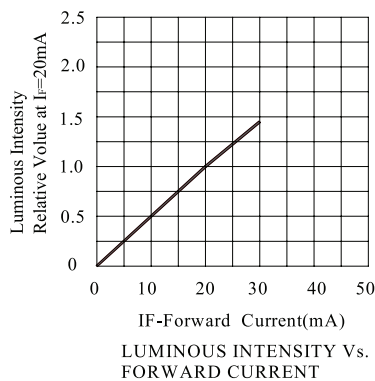
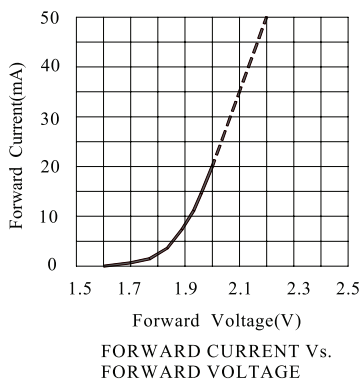
Notes:

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.



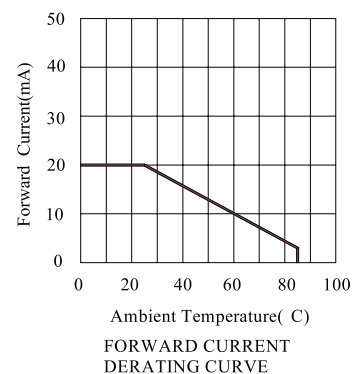
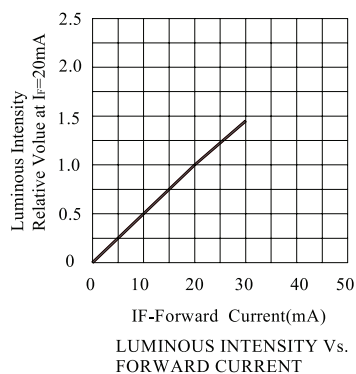
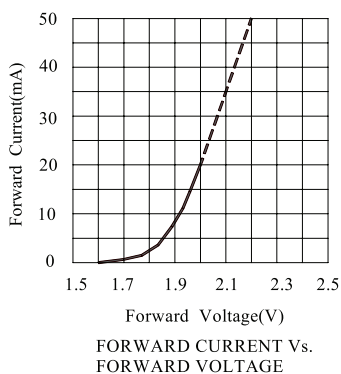
Typical Electrical/Optical Characteristics Curves

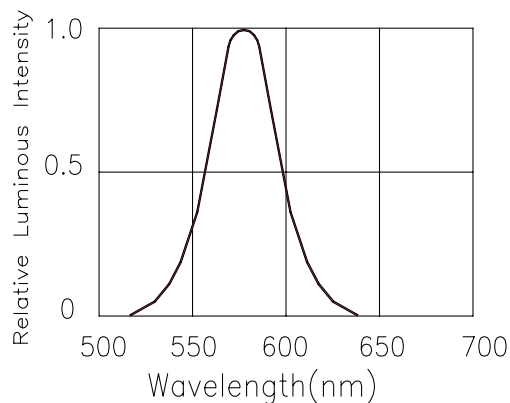
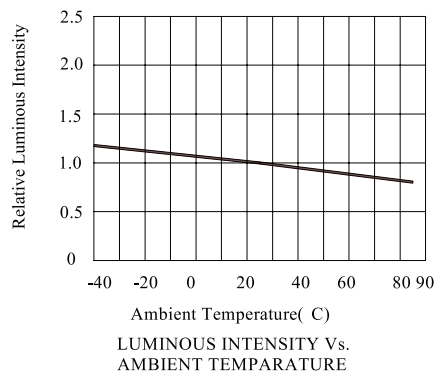
Red



Typical Electrical/Optical Characteristics Curves

Kelly





Part Number Table

Description	Part Number
Multi Colour LED, Common Cathode, Red and Kelly, 3mm, 75mW	MP017038

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