



Features:

- Long operating life
- Energy efficiency
- Low thermal resistance
- Compact design
- Instant light
- Fully dimmable
- No UV
- Superior ESD protection

**RoHS
Compliant**

Typical Applications:

- Reading lights
- Portable light
- Orientation
- Entertainment
- Garden
- Security light
- Ceiling light
- Architectural lighting
- General lighting
- Jewel display illumination

Absolute Maximum Ratings:

Parameter	1W
DC Forward Current	350mA
Peak Pulse Current	500mA
LED Junction Temperature	110°C
Operating Temperature	-30°C to +100°C
Storage Temperature	-40°C to +120°C
Soldering Temperature	Manual 260°C(max) 5 Seconds
Reverse Voltage	Manual 260°C (max) 5 Seconds

Flux Characteristics at 350mA, Junction Temperature, T_j=25°C

Colour	Minimum Luminous Flux(lm)	Typical Luminous Flux(lm)	Max. Luminous Flux(lm)	Beam Pattern
Red	40	50	-	Lambertian

Notes :

1. Luminous flux is measured with an accuracy of ±10%

Optical Characteristics at 350mA, Junction Temperature, T_j=25°C

Colour	Dominant Wavelength λ _d Peak Wavelength λ _p or Colour Temperature (CCT)		Viewing Angle Degree
	Min.	Max.	
Red	620 nm	630 nm	135

Notes :

1. CCT ±5% tester tolerance.
2. Wavelength is measured with an accuracy of ±0.5nm.

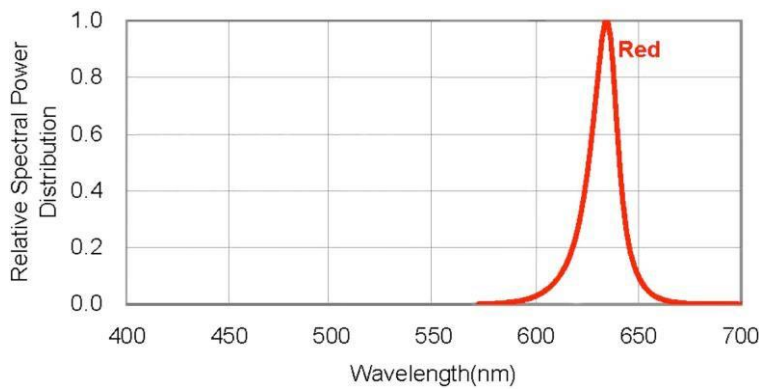
Electrical Characteristics at 350mA, Junction Temperature, Tj=25°C

Colour	Forward Voltage Vf(V)			Temperature Coefficient of Vf(mV/°C)	Thermal Resistance Junction to lead (°C/W)
	Min.	Typ.	Max.	$\Delta V_f/\Delta T_j$	
Red	-	2.2	2.6	-2	12

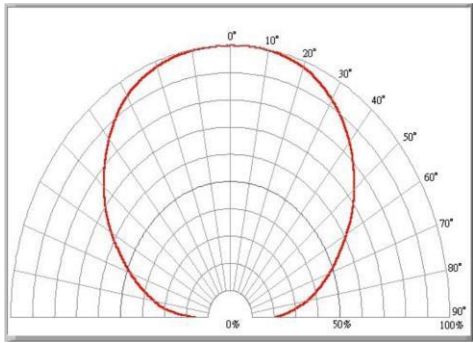
Notes:

- 1. VF ±0.1V tester tolerance.

Colour Spectrum, Tj = 25°C

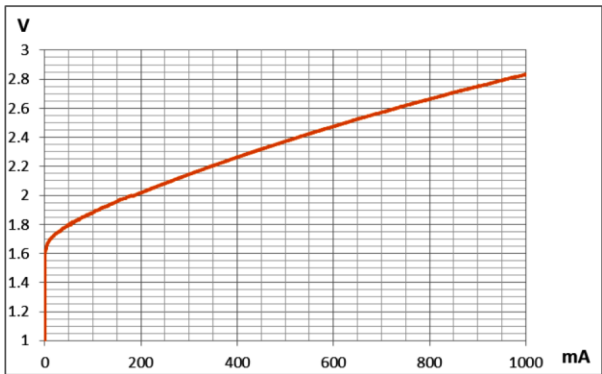


Radiation Diagram



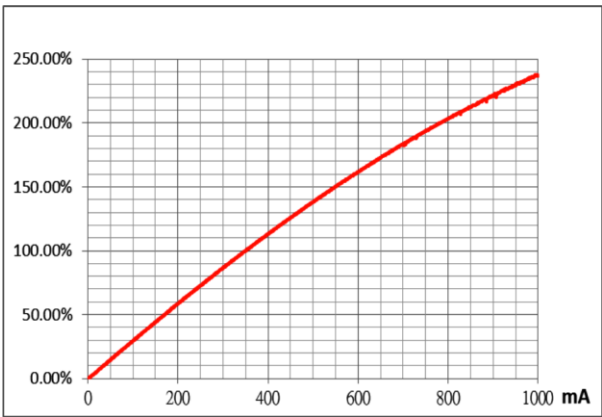
Typical Spatial distribution for Red

Forward Voltage & Forward Current



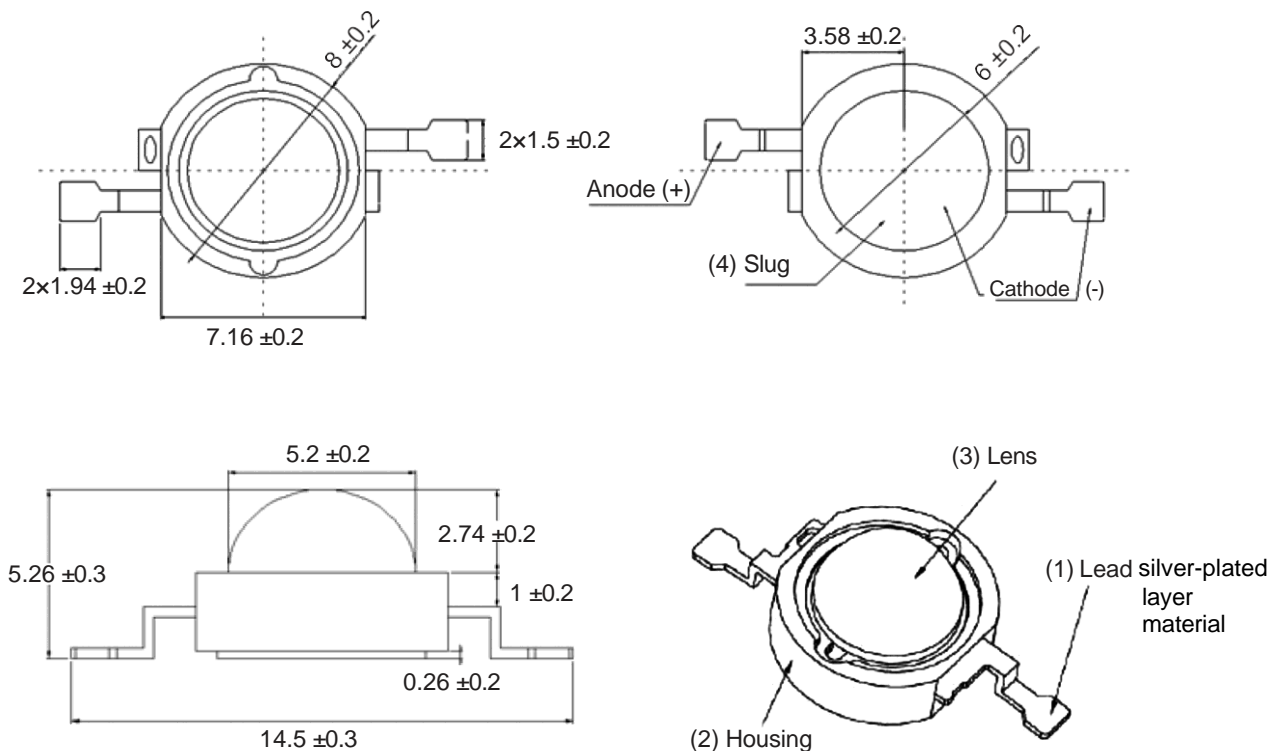
Typical Spatial distribution for Red

Luminous Flux & Forward Current



Typical Spatial distribution for Red

Diagram



Dimensions : Millimetres
Tolerance : ± 0.2 mm

Notes:

The polarity of the slug at the bottom is anode.
It is important that the slug can't contact the aluminium surface; it is strongly recommended that there should coat a uniform, electrically isolated heat dissipation film be coated on the surface.
It is strongly recommended that the temperature of lead not be higher than 70°C.

Part Number Table

Description	Part Number
THEL-CLR, Flux, Red LED	THEL-CLR

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