

RoHS  
Compliant



## Features:

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

## 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<sub>J</sub>=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<sub>J</sub>=25°C

Colour	Dominant Wavelength λ <sub>d</sub> Peak Wavelength λ <sub>p</sub> 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.

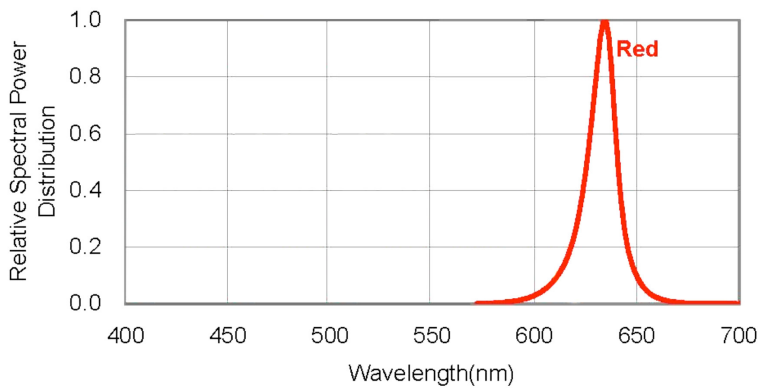
## Electrical Characteristics at 350mA, Junction Temperature, T<sub>J</sub>=25°C

Colour	Forward Voltage V <sub>F</sub> (V)			Temperature Coefficient of V <sub>F</sub> (mV/°C)	Thermal Resistance Junction to lead (°C/W)
	Min.	Typ.	Max.	ΔV <sub>F</sub> /ΔT <sub>J</sub>	
Red	-	2.2	2.6	-2	12

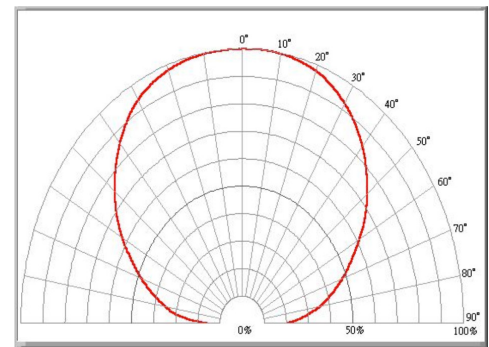
Notes:

1. V<sub>F</sub> ±0.1V tester tolerance.

### Colour spectrum, T<sub>J</sub> = 25°C

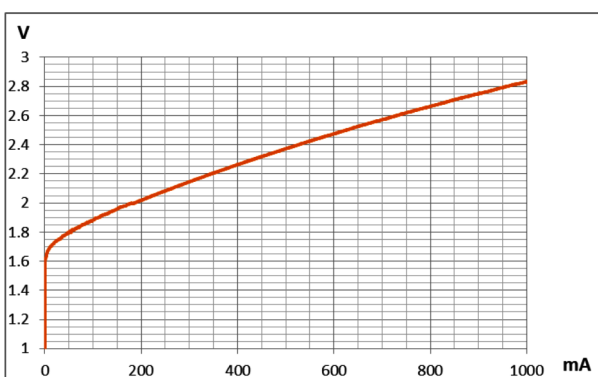


### Radiation Diagram



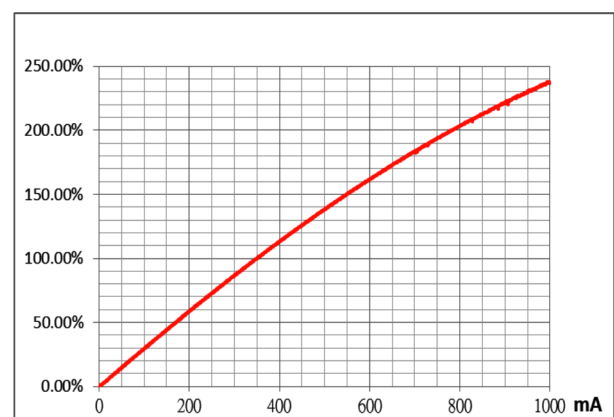
Typical Spatial distribution for Red

### Forward Voltage & Forward Current



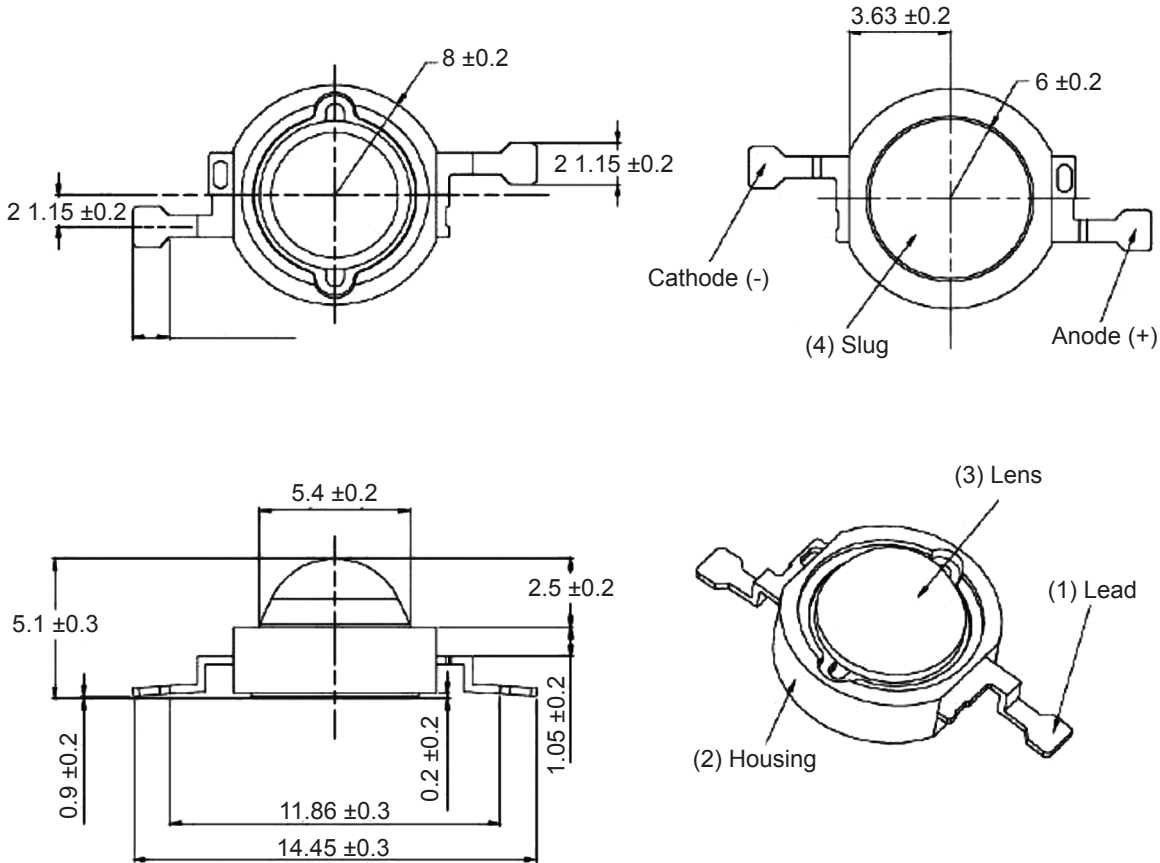
Typical Spatial distribution for Red

### Luminous Flux & Forward Current



Typical Spatial distribution for Red

**Drawing:**



Dimensions : Millimetres  
Tolerance :  $\pm 0.2$  mm

**Notes:**

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

**Part Number Table**

Description	Part Number
THEM-CLC Flux Red LED	THEM-CLR <sub>X</sub> (RED)

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