

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_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 $\pm 10\%$

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	201/2 135

Notes :

1. CCT $\pm 5\%$ tester tolerance.
2. Wavelength is measured with an accuracy of $\pm 0.5\text{nm}$.

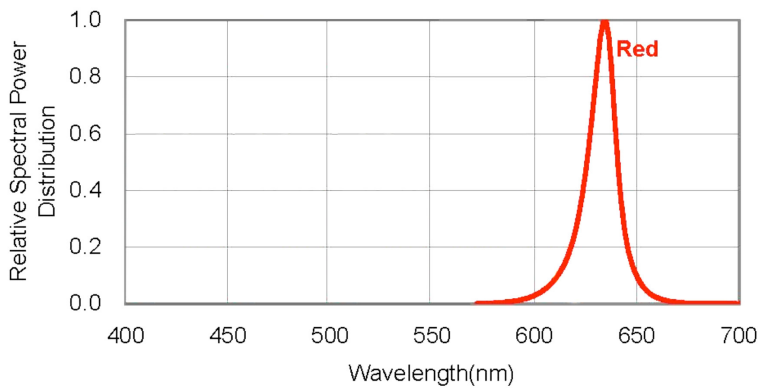
Electrical Characteristics at 350mA, Junction Temperature, T_J=25°C

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

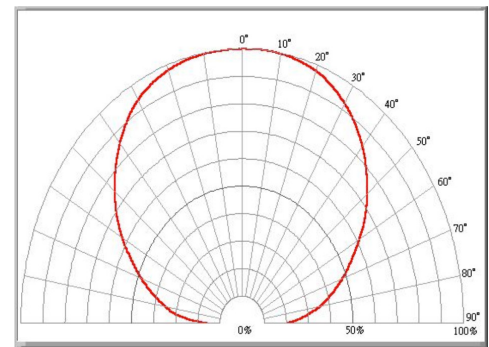
Notes:

1. V_F ±0.1V tester tolerance.

Colour spectrum, T_J = 25°C

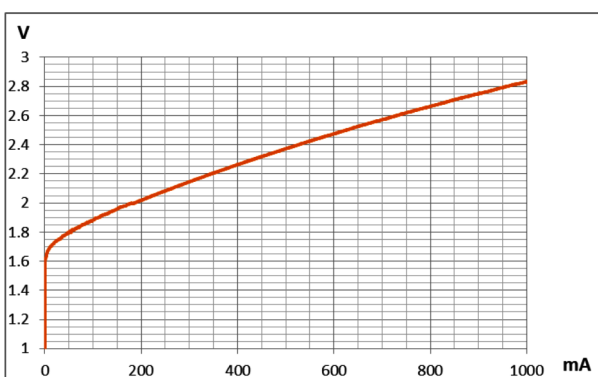


Radiation Diagram



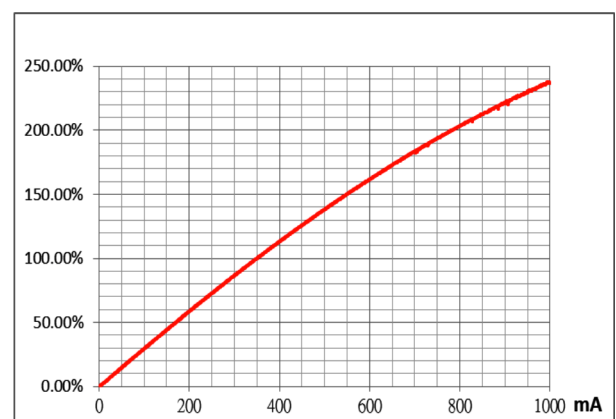
Typical Spatial distribution for Red

Forward Voltage & Forward Current



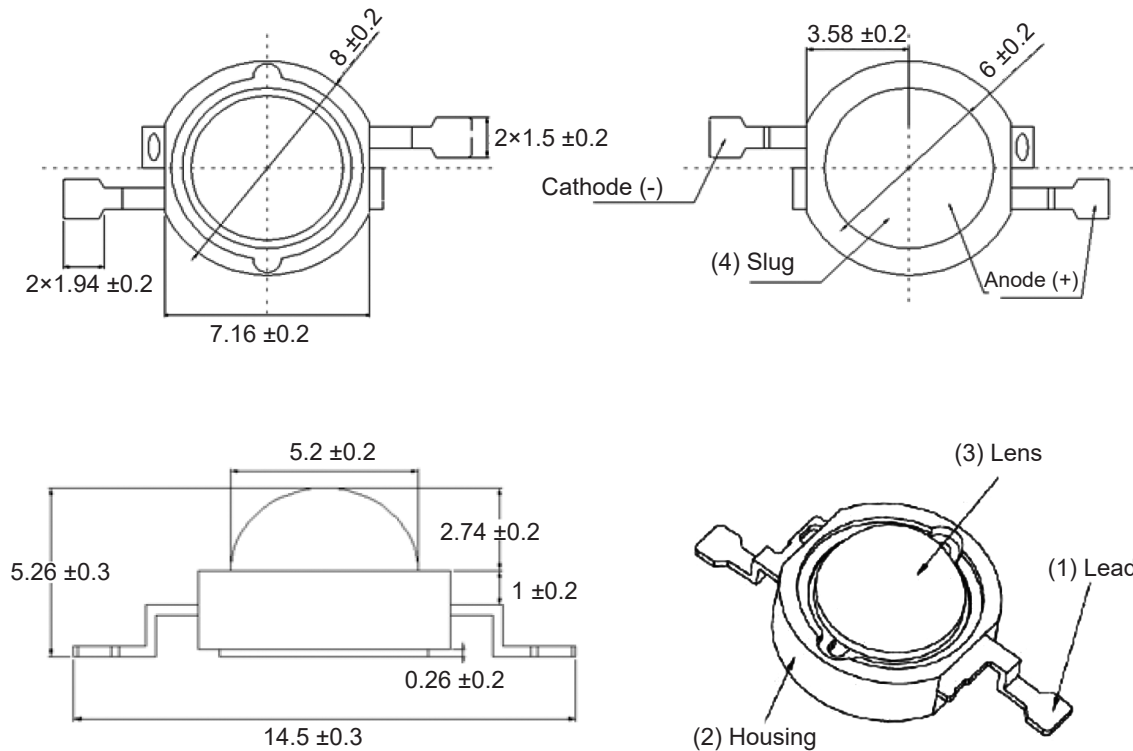
Typical Spatial distribution for Red

Luminous Flux & Forward Current



Typical Spatial distribution for Red

Diagram



Dimensions : Millimetres

Tolerance : ± 0.2 mm

Notes:

The polarity of 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 ^X (RED)

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