THEM-CLC Flux LED

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
Green	57	75	-	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 λd Peak Wavelength λp or Colour Temperature (CCT)		Viewing Angle Degree
	Min.	Max.	2θ1/2
Green	520 nm	535 nm	155

Notes :

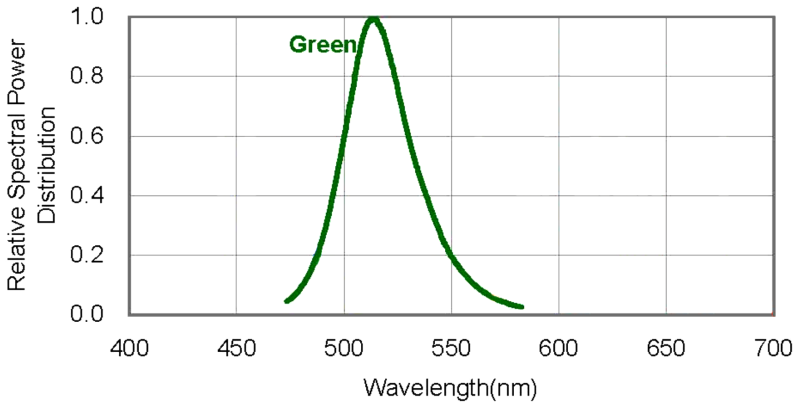
1. CCT ±5% tester tolerance.
2. Wavelength is measured with an accuracy of ±0.5nm.

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

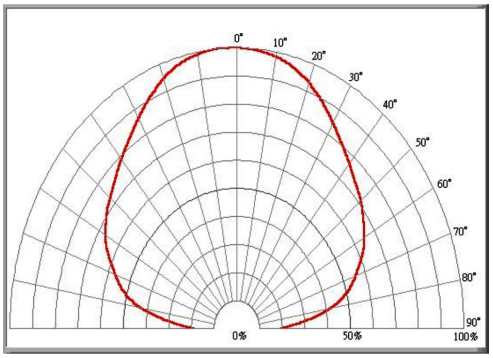
Colour	Forward Voltage V_F(V)			Temperature Coefficient of V_F(mV/°C)	Thermal Resistance Junction to lead (°C/W)
	Min.	Typ.	Max.	$\Delta V_F/\Delta Tj$	
Green	-	3.4	3.6	-2	12

Notes:
1. VF ±0.1V tester tolerance.

Colour spectrum, T_J = 25°C

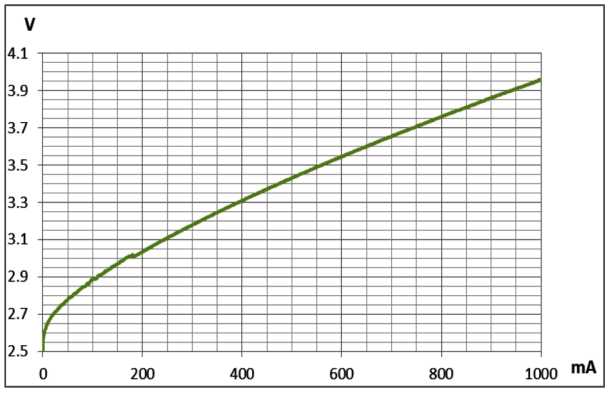


Radiation Diagram



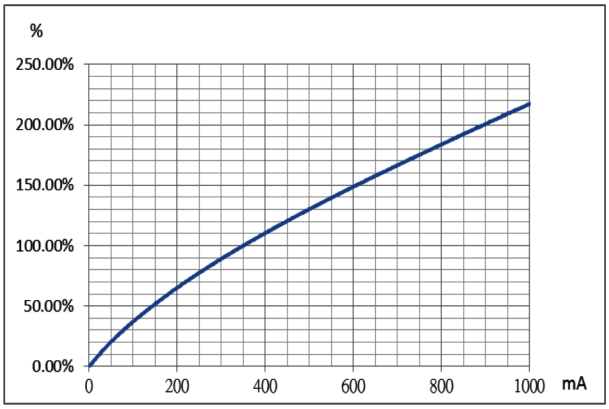
Typical Spatial distribution for Green

Forward Voltage & Forward Current



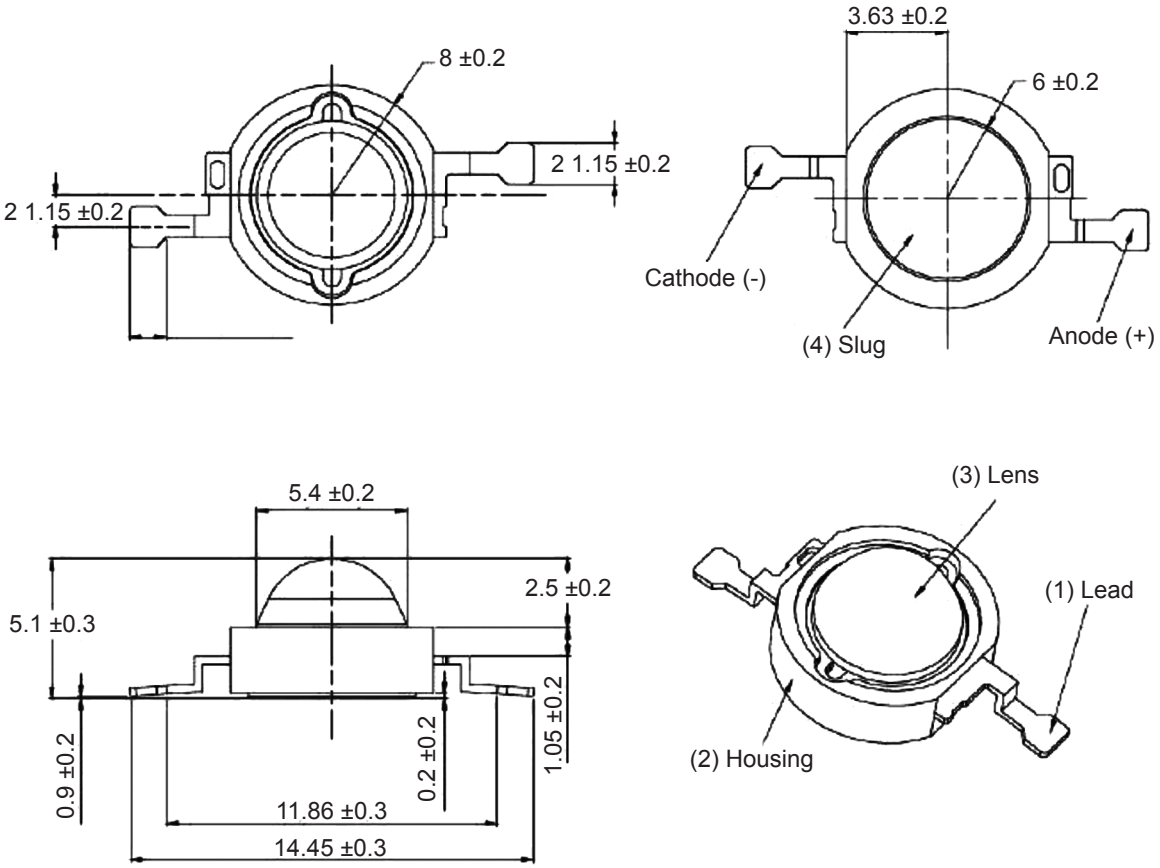
Typical Spatial distribution for Green

Luminous Flux & Forward Current



Typical Spatial distribution for Green

Drawing:



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 Green LED	THEM-CLGX(520535)