LED LAMP

CL-5014UWC1C-UWW

Features

Low power consumption

High Efficiency

Round type

T1 (5mm) diameter

With Flange

Solder leads without stand-off

Compliant with RoHS

ATTENTION

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE DEVICES

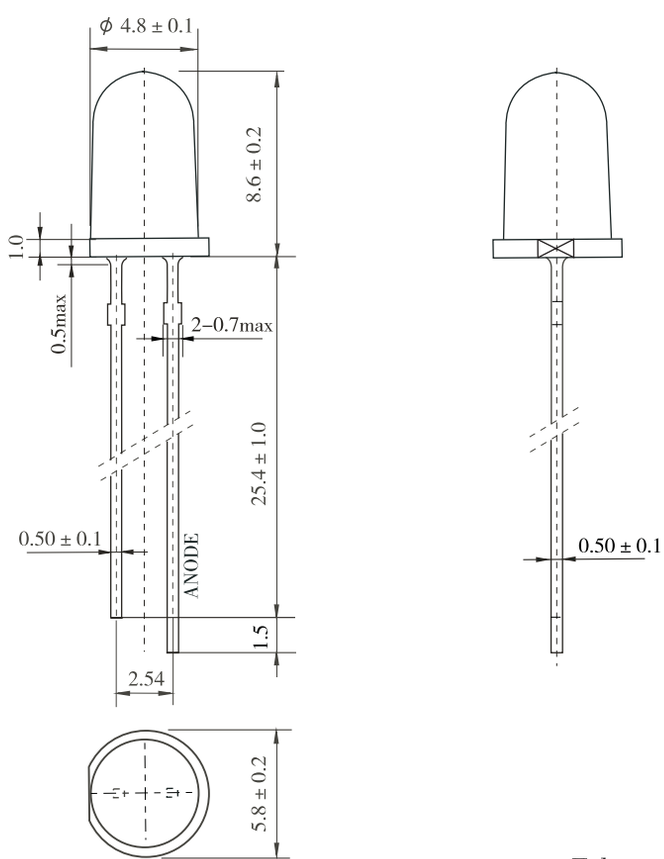
Descriptions

Chip Material: InGaN

Emitting Color: White

Lens Color: Water Clear

Outline Drawing



Tolerance is ± 0.25mm

Unless Otherwise Specified.

Electrical Optical Characteristics (Ta=25℃)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage	V_F	---	3.2	3.6	V	IF=20mA
Luminous Intensity	I_V	23000	30000	---	mcd	IF=20mA
Chromaticity Coordinates (Tolerance: ± 0.01)	X	---	0.2895	---	nm	IF=20mA
	Y	---	0.2905	---	nm	IF=20mA
Spectral Line half-width	$\Delta\lambda$	---	30	---	nm	IF=20mA
Reverse Leakage Current	I_R	---	---	50	μA	VR=5V
Viewing Angle	$2\theta_{1/2}$	---	15	---	Deg	IF=20mA

Absolute Maximum Parameters (Ta=25℃)

Parameter	Symbol	Condition	Rating	Unit
Power Dissipation	P_D	---	120	mW
Reverse Voltage	V_R	---	5	V
Forward Average Current	I_F	---	30	mA
Temperature cofficient	I/C	---	0.4	mA/ ℃
Pulse Current	IFP	Duty=1/10,1kHz	100	mA
Operating Temperature Range	Topr	---	-25 ~ +85	℃
Storage Temperature Range	Tstg	---	-30 ~ +100	℃
Soldering Condition	Tsd	---	260℃/5sec	℃

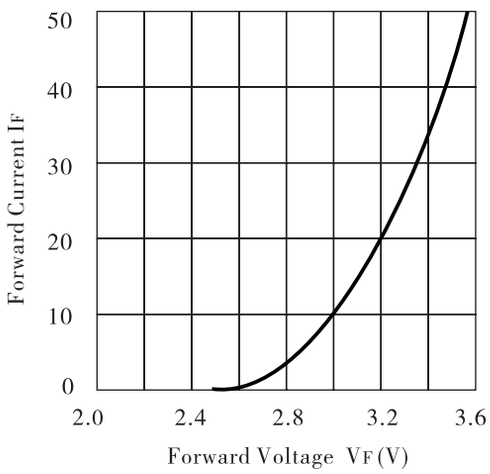
NOTE:

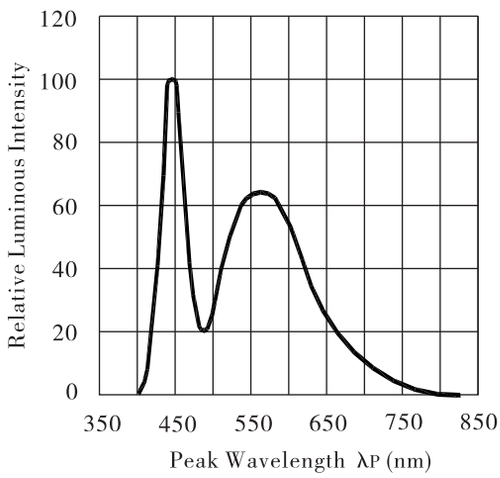
Luminous Intensity Measurement allowance is ± 10%.

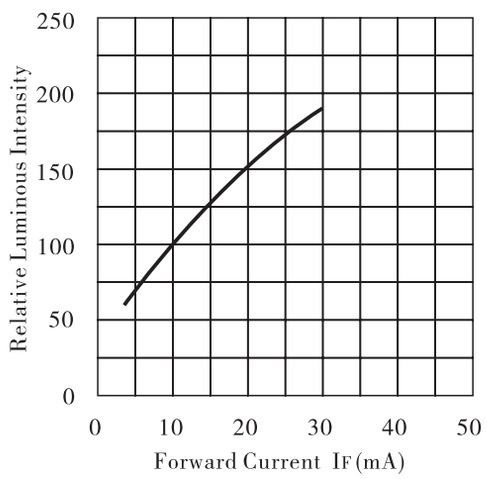
$2\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

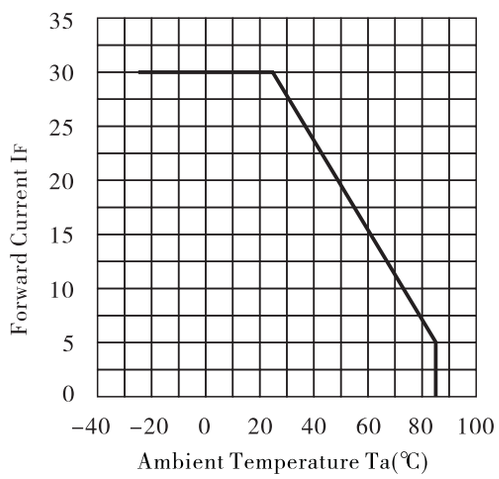
The dominant wavelength is derivd from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

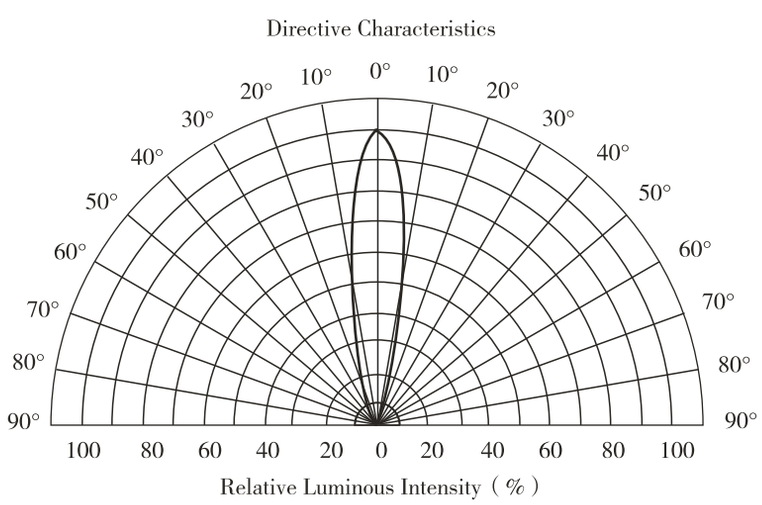
Typical Electro-Optical Characteristic Curves (Ta=25℃)











Reliability test conditions

Test Item	Test Condition	Result	Judgment criteria
Consecutive operating life test	IF=20mA, T=25℃, t=168h	0/100	Forward Voltage V_F(V)= Upper Limit × 1.2 Reverse Leakage Current I_R(μA)=Upper Limit × 2.0 Luminous Intensity I_V (mcd)=Lower Limit × 0.7
High temperature storage life test	T=100℃, t=168h	0/100	
Low temperature storage life test	T=-25℃, t=168h	0/100	
high Temperature humidity storage life test	T=85 ± 2℃, RH=85% ± 3, t=168h	0/100	
Temperature cycle test	-25℃~25℃~100℃, 30min 5min 30min 10cycles	0/100	
Thermal shock test	100℃ 0℃ 5min 5min 20 cycles	0/100	
Soldering heat test	T=260 ± 5℃ , t=10s ± 1s	0/100	
Solderability test	T=235 ± 5℃, t=5s ± 0.5s	0/100	Steeped Part≥95%
Fall test	h=100cm, 50 times	0/100	Intact
Terminal strength test	W=9.8N, t=30 ± 5s	0/100	
Lead Bending test	W=4.9N, 2 times	0/100	

Package

Item	Inner packaging bag	Inner packaging box
Material	Antistatic bag	Single corrugated box
Quantity	1000PCS	Single corrugated box × 6 =6000PCS
Marking	Label Marking: Type、Quantity	Centificate of conformity Marking: Product name 、Type、Quantitye、Date of manufacture
Size	16×23(cm)	30×19×11.5(cm)