EVERGLOW

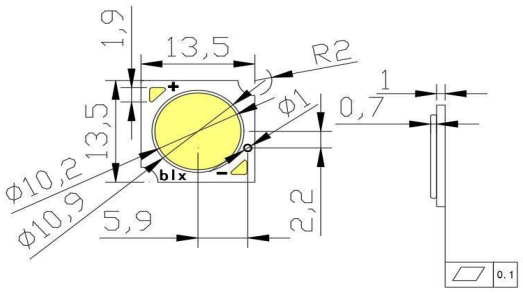
GUANGZHU EVERGLOW LIGHTINC CO.,LTD

SPECIFICATION

PART NO. : EG-1311-15CW-L140-2B15C

Approved by	Checked by	Prepared by

Package Dimensions



Notes:

1. All dimensions are in millimeters. 2. Tolerance is ±0.25 unless otherwise noted.

Description

Part No.	LED Chip		Silica gel Color
	Material	Emitting Color	
EG-1311-15CW-L140-2B15C	AL/GaN /GaN	White	Water Clear

Electrical/Optical Characteristics (At T_A=25°C)

Parameter	Symbol	Conditions	Min.	Avg.	Max.	Units	
Luminous Flux	Φ	I_F=300mA	1800	-	1850	lm	
Color Temperature	CCT	I_F=300mA	5500	5700	6000	K	
CRI	Ra	I_F=300mA	80	-	--	-	
Forward Voltage	V_F	I_F=300mA	45	-	48	V	
Thermal Resistance Junction To Board	$R\Theta_{J-B}$	I_F=300mA	–	10	–	°C/W	
Temperature Coefficient of Forward Voltage	$\Delta V_F/\Delta T$	I_F=300mA	–	2	–	mV/°C	
Reverse Current	I_R	V_R=7V	–	–	5	μA	
Viewing Angle [1]	$2\Theta_{1/2}$	I_F=300A	–	120	–	Deg	

Absolute Maximum Rating(At TA=25°C)

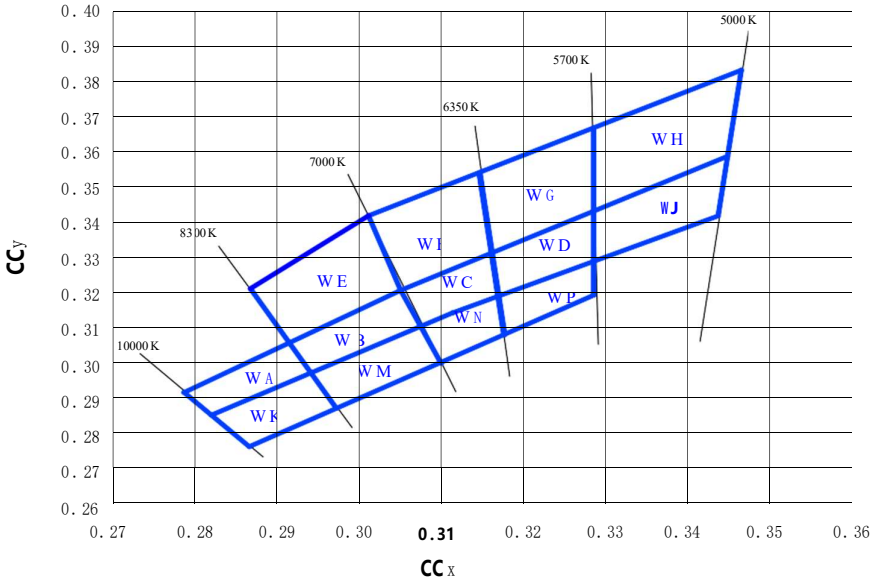
Parameter	Symbol	Ratings	Units
Power Dissipation	P_D	16.45	W
Continuous Forward Current	I_F	350	mA
Peak Forward Current [2]	I_F(Peak)	350	mA
LED Junction Temperature	T_J	125	°C
Reverse Voltage	V_R	5	V
Operating Temperature Range	T_{OPR}	-40°C To +105°C	
Storage Temperature Range	T_{STG}	-40°C To +85°C	
Manual Solding Temperature	T_{SOL}	250°C± 20°C For 3~5 Seconds	
ESD Sensitivity	ESD	1000V HBM	

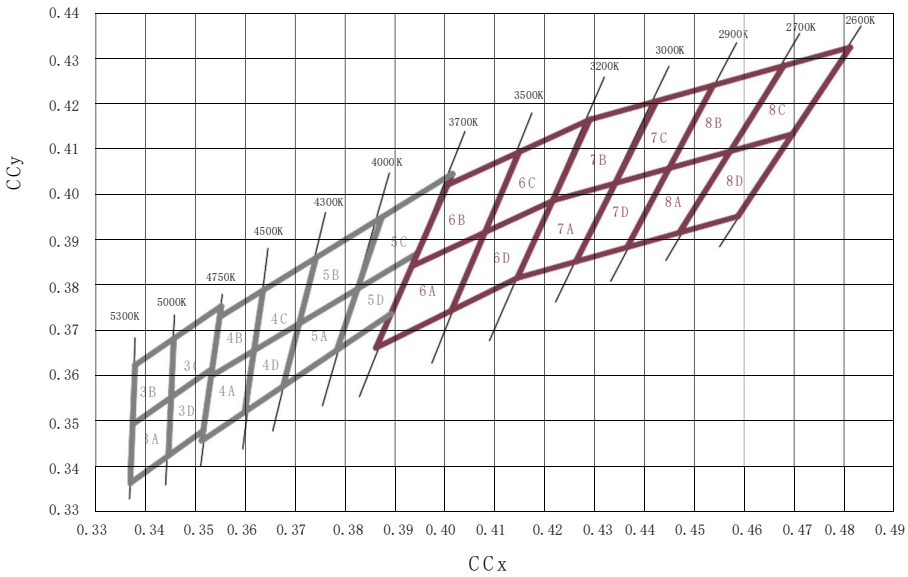
Notes:

[1]. Tolerance Θ:10%.

[2].1/10 Duty Cycle 0.1ms Pulse Width.

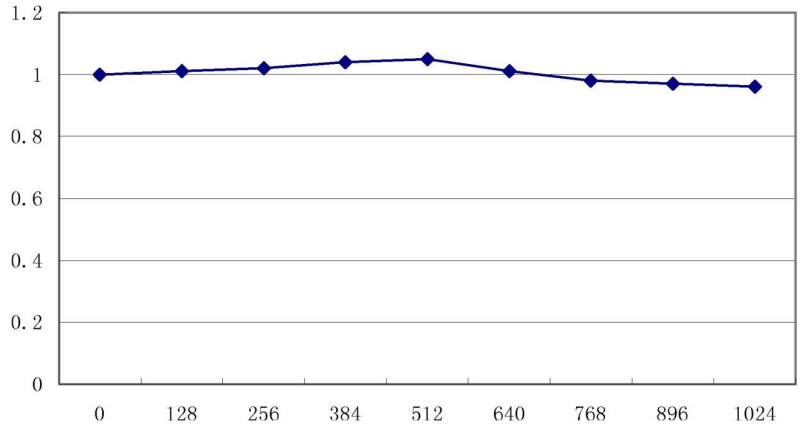
Bin Structure





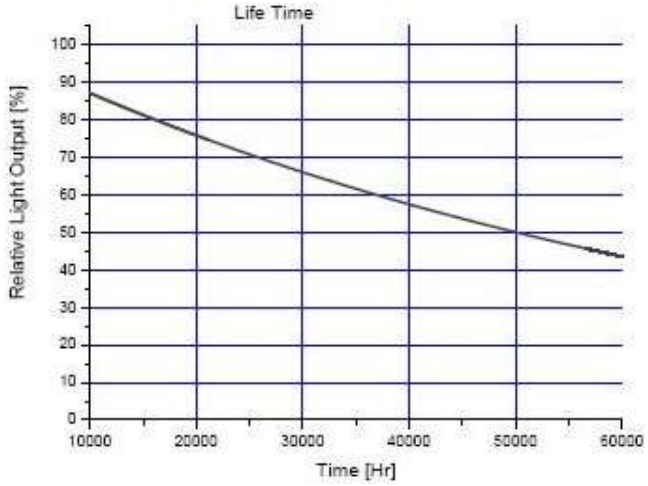
Room Temperature Operating Life Reliability Test Result

(Ta=25°C,If=600mA）Use SSC circuit board&heat sink(Tj=50°C)



1000HR 3％ degradation

Life Time graph



50000HR 50％ degradation