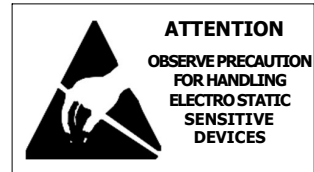




GUANGZHU EVERGLOW LIGHTING CO.,LTD

SPECIFICATION

PART NO. : EG-1311-12CW-L140-2B12C



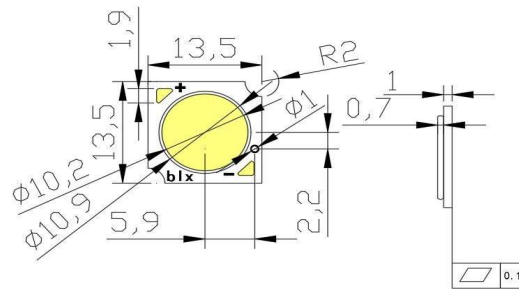
Approved by	Checked by	Prepared by



EVERGLOW

EG-1311-12CW-L140-2B12C

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-1311-12CW-L140-2B12C	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	1400	-	1450	lm	
Color Temperature	CCT	I _F =300mA	5500	5700	6000	K	
CRI	R _a	I _F =300mA	80	-	--	-	
Forward Voltage	V _F	I _F =300mA	36	-	39	V	
Thermal Resistance Junction To Board	R _{ΘJ-B}	I _F =300mA	-	10	-	°C/W	
Temperature Coefficient of Forward Voltage	ΔV _F /ΔT	I _F =300mA	-	2	-	mV/°C	
Reverse Current	I _R	V _R =7V	-	-	5	μA	
Viewing Angle ^[1]	2Θ _{1/2}	I _F =300A	-	120	-	Deg	

Absolute Maximum Rating(At T_A=25°C)

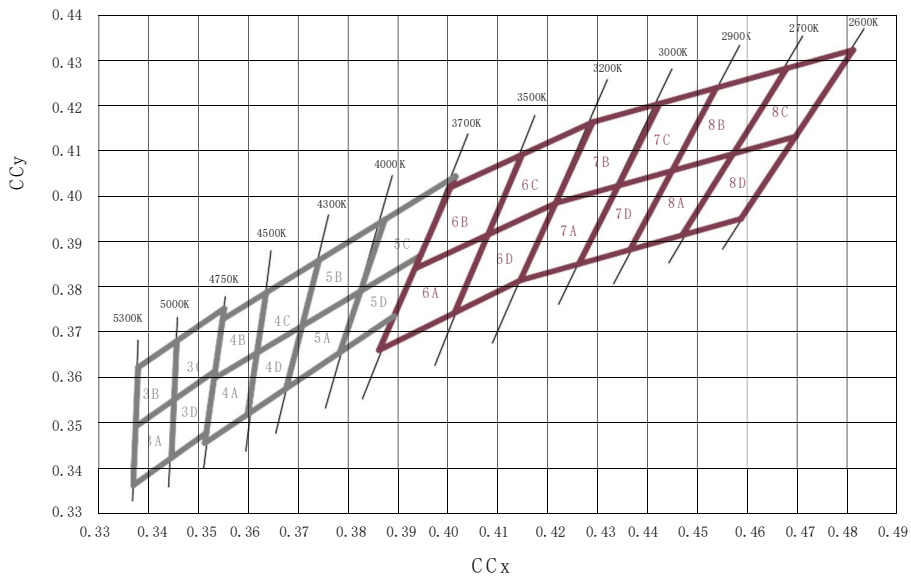
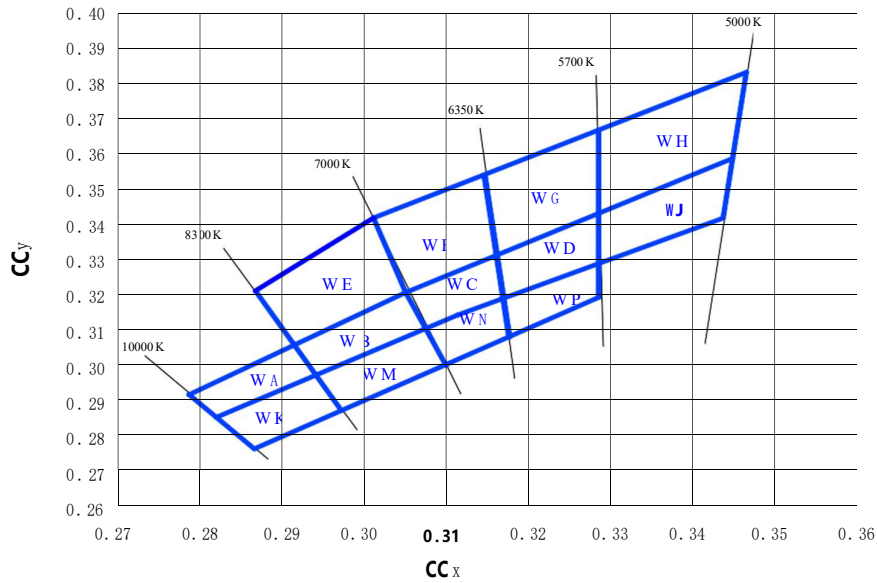
Parameter	Symbol	Ratings	Units
Power Dissipation	P _D	13.3	W
Continuous Forward Current	I _F	350	mA
Peak Forward Current ^[2]	I _F (Peak)	350	mA
LED Junction Temperature	T _J	125	°C
Reverse Voltage	V _R	5	V
Operating Temperature Range	T _{OPR}	-40°C To +105°C	
Storage Temperature Range	T _{STG}	-40°C To +85°C	
Manual Soldering Temperature	T _{SOL}	250°C± 20°C For 3~5 Seconds	
ESD Sensitivity	ESD	1000V HBM	

Notes:

[1]. Tolerance Θ:10%.

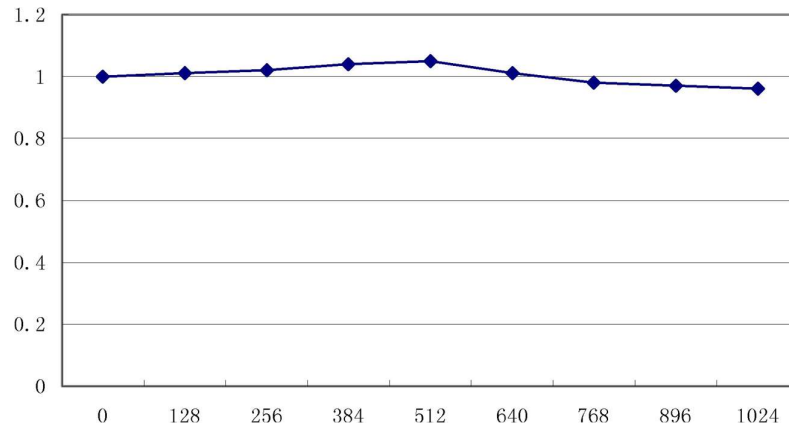
[2].1/10 Duty Cycle 0.1ms Pulse Width.

Bin Structure



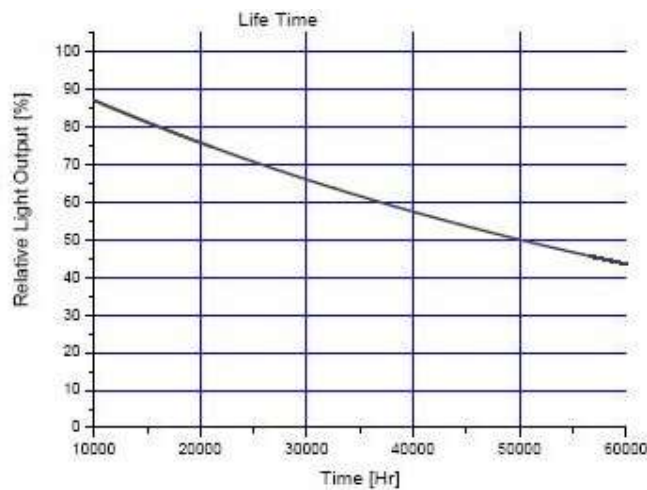
Room Temperature Operating Life Reliability Test Result

($T_a=25^{\circ}\text{C}$, $I_f=600\text{mA}$) Use SSC circuit board&heat sink($T_j=50^{\circ}\text{C}$)



1000HR 3% degradation

Life Time graph (使用寿命)



50000HR 50% degradation