Paragon Semiconductor Lighting Technology

PSLT

ParagonLED

Specifications

Product Type : CBAC-108-5028-277V-57

Issued Date : 07/01/2013

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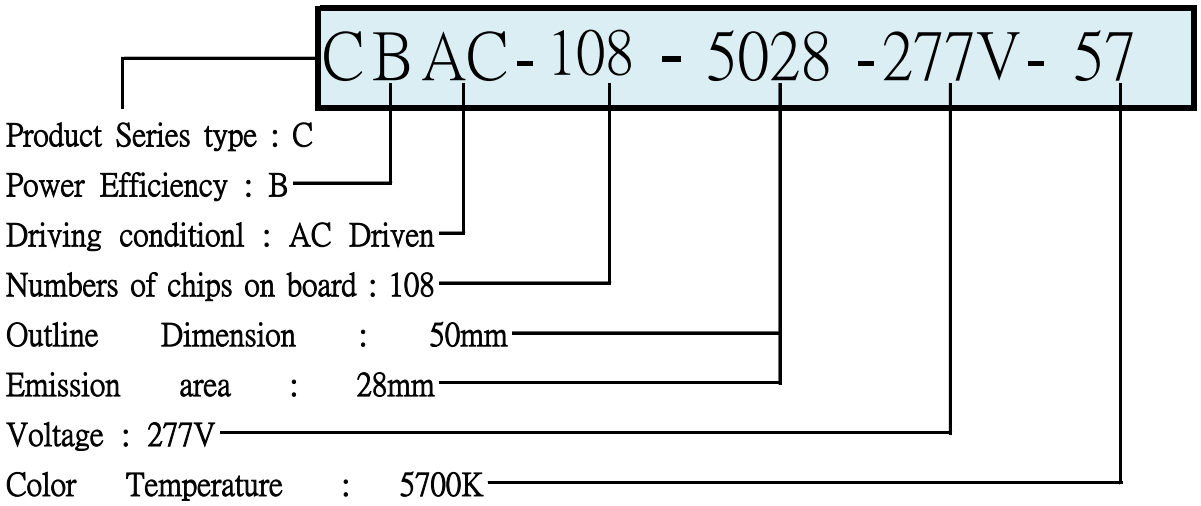
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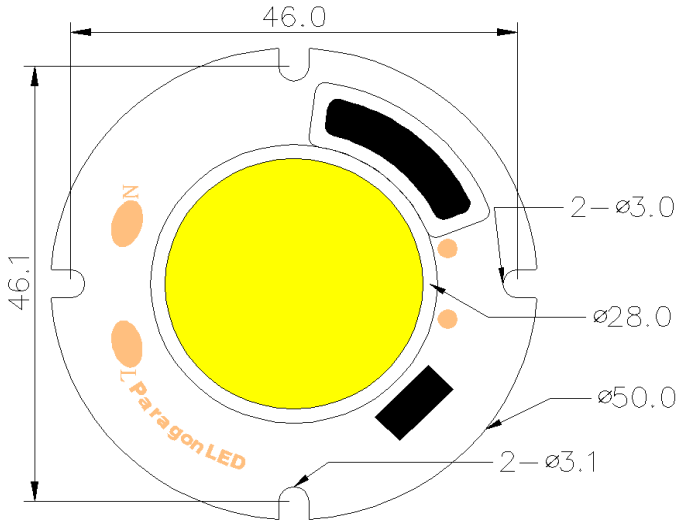
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1. General Description

(1) Naming rule



(2) Outline Dimensions (Unit : mm / Tolerance: 0.2mm)



Thickness : 1.0±0.2mm

2. Electro-Optical Characteristics

(1) Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Power Dissipation	PD	22	W
Forward Current	IF	-	mA
Forward Voltage	VF	267 ~ 297	V
Operating Temperature	Topr	-40 ~ +105	℃
Storage Temperature	Tstg	-40 ~ +105	℃
Assembly process temperature	Tsol	<300℃ , 5 secs	

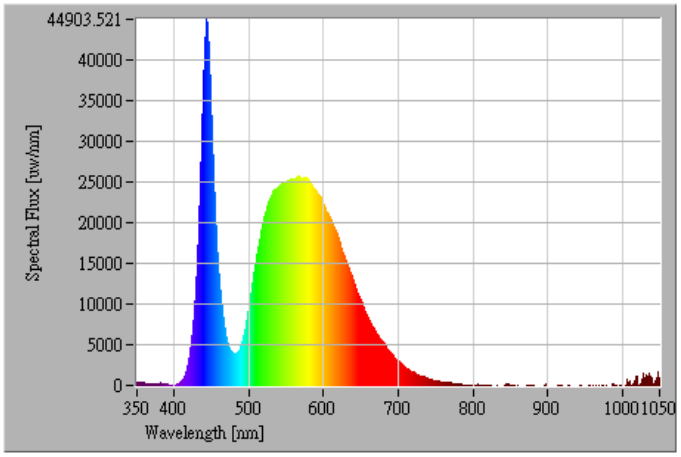
(2) Electro-Optical Characteristics

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	VF	-	267	277	297	V
Reverse Current	IR	-	-	-	-	μA
Luminous Intensity	Φv	VF=277V	-	2310	-	Lm
Color rendering	Ra	VF=277V	-	70	-	

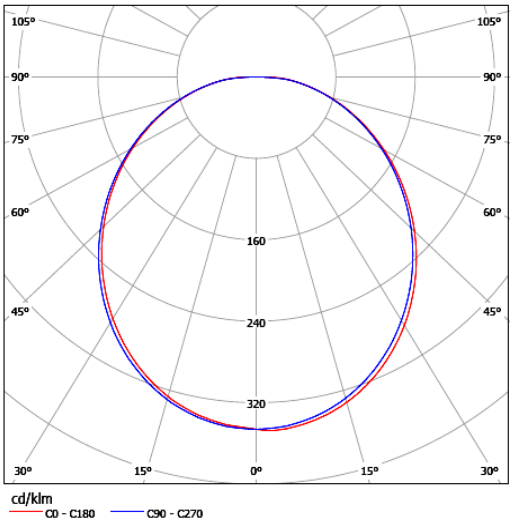
Notice: Operating voltage of CBAC-108 product varies from 267V~297V，users must keep the temperature of solder joint point under 105℃ (with suitable heat sink), or may cause Serious luminous decay. We DO NOT guarantee of improper use.

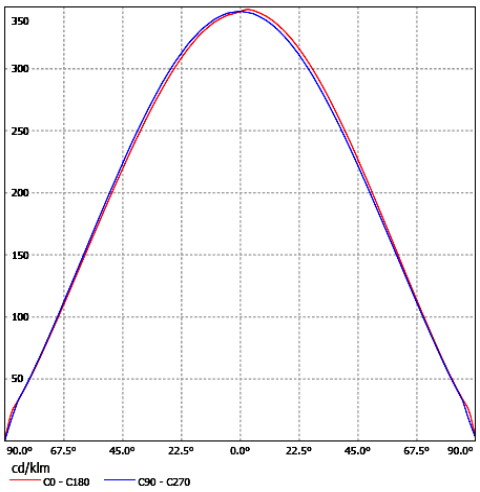
(3) Characteristics

Spectrum

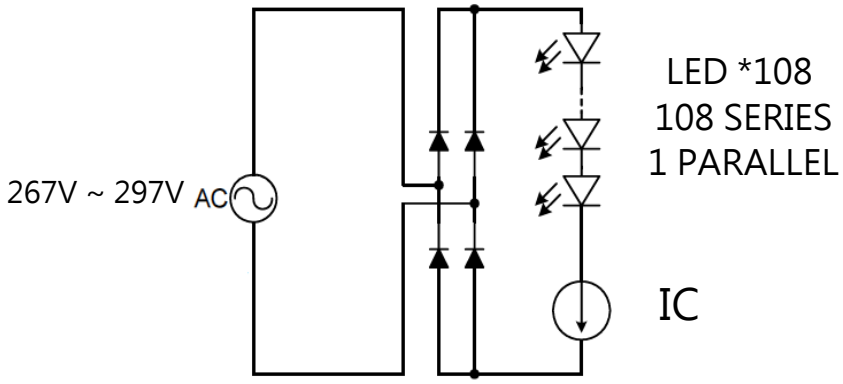


Candle Power Distribution & Cartesian Coordinate

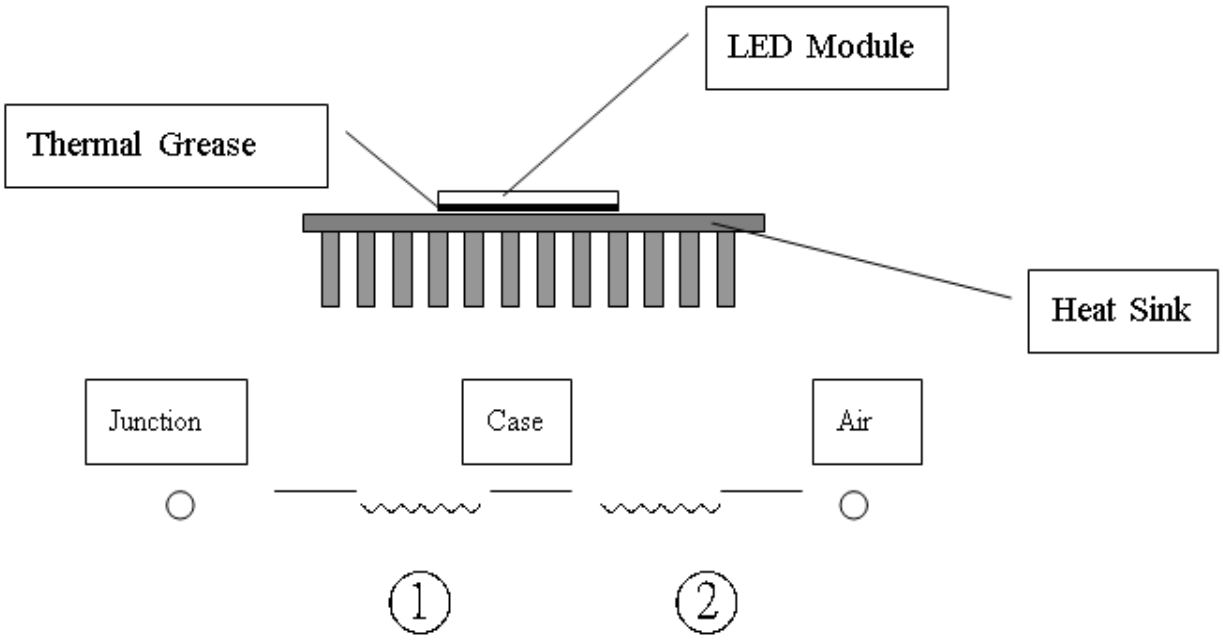




(4) Layout



3. Junction Temperature Measurement



①Thermal resistance of Junction to Case without heat sink : 10(℃/W)〔Reference Value〕

②Thermal resistance of Case to Ambient Air: Depending on what kind of heat sink users choose. In ideal thermal dissipation situation, the thermal resistance is about 1~2 ℃/W.

4. Reliability Test

Test Item	Test Conditions	Number of failed
High Temperature Storage Test	Tstg= +105°C，x1,000 hrs	0/20
Low Temperature Storage Test	Tstg=-40°C，x1,000 hrs	0/20
Continous Light-on Test	Ta= 25°C，RH=65%，x1,000 hrs	0/20
Boiling Test	Ta=100°C，RH=100%，X180mins	0/20
Thermal Cycle Test	- 40°Cx30mins，80°Cx30mins，100cycles	0/20

Measuring Item	Measuring Condition	Judging Criteria of Failure
Forward Voltage	VF=277V	> 0 x 1.1
Total Luminous Flux	VF=277V	< L x 0.85

Dielectric Breakdown Voltage (Vac) of Thremal Pad must >4 KV

WARNING : Please ground lighting fixtures while designing lamps.
If any damage or defect of LED caused without grounding, we do not guarantee of improper use.