

*Paragon Semiconductor Lighting Technology*

*PSLT*

**ParagonLED**

## Specifications

**Product Type : SDAC-150-6969-220V-57**

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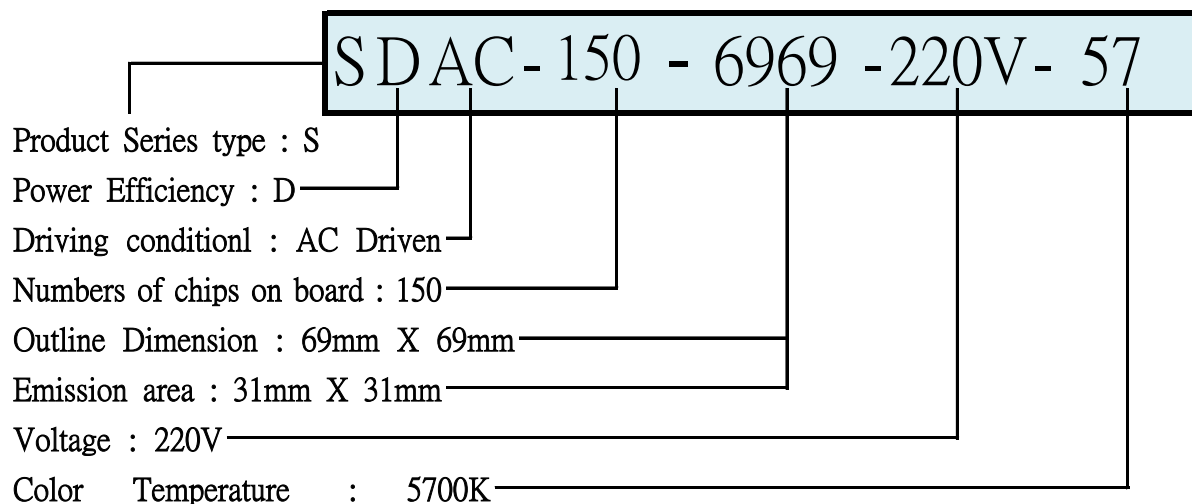
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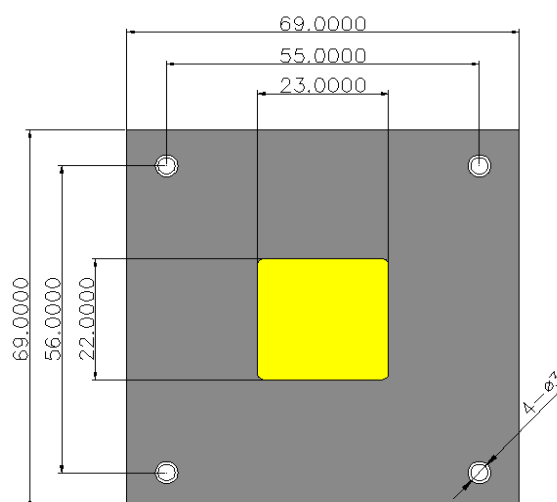
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## 1. General Description

### (1) Naming rule



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



Thickness :  $8.0 \pm 0.2$ mm

## 2. Electro-Optical Characteristics

### (1) Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Power Dissipation	PD	66	W
Forward Current	IF	—	mA
Forward Voltage	VF	210 ~ 240	V
Operating Temperature	Topr	-60 ~ +105	°C
Storage Temperature	Tstg	-60 ~ +120	°C
Assembly process temperature	Tsol	<300°C , 5 secs	

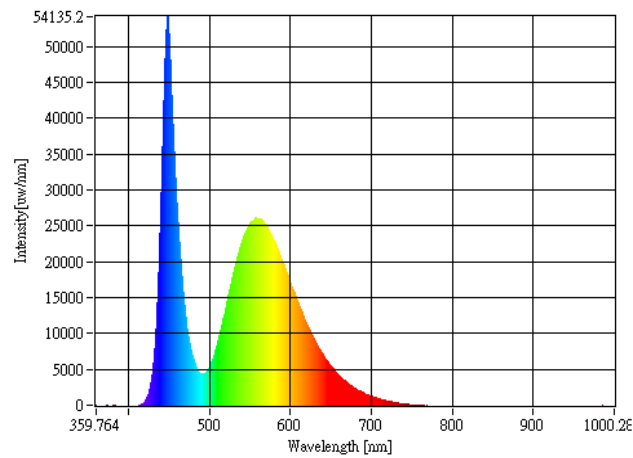
## (2) Electro-Optical Characteristics

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	VF	–	210	220	240	V
Reverse Current	IR	–	–	–	–	$\mu\text{A}$
Luminous Intensity	$\Phi_v$	VF=220V	–	6600	–	Lm
Color rendering	Ra	VF=220V	–	70	–	

**Notice: Operating voltage of SDAC-150 product varies from 210V~240V · users must keep the temperature of solder joint point under 105°C (with suitable heat sink), or may cause Serious luminous decay. We DO NOT guarantee of improper use.**

## (3) Characteristics

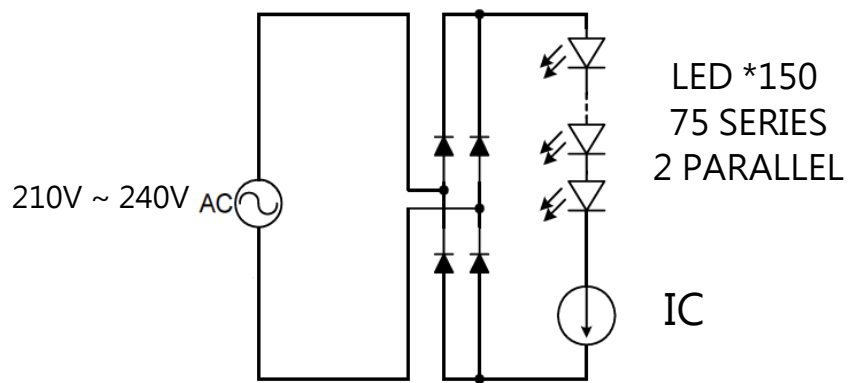
### Spectrum



### Candle Power Distribution & Cartesian Coordinate



#### (4) Layout



### 3. Junction Temperature Measurement



- ① Thermal resistance of Junction to Case without heat sink : 10(°C/W) [ Reference Value ]
- ② Thermal 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 °C/W.

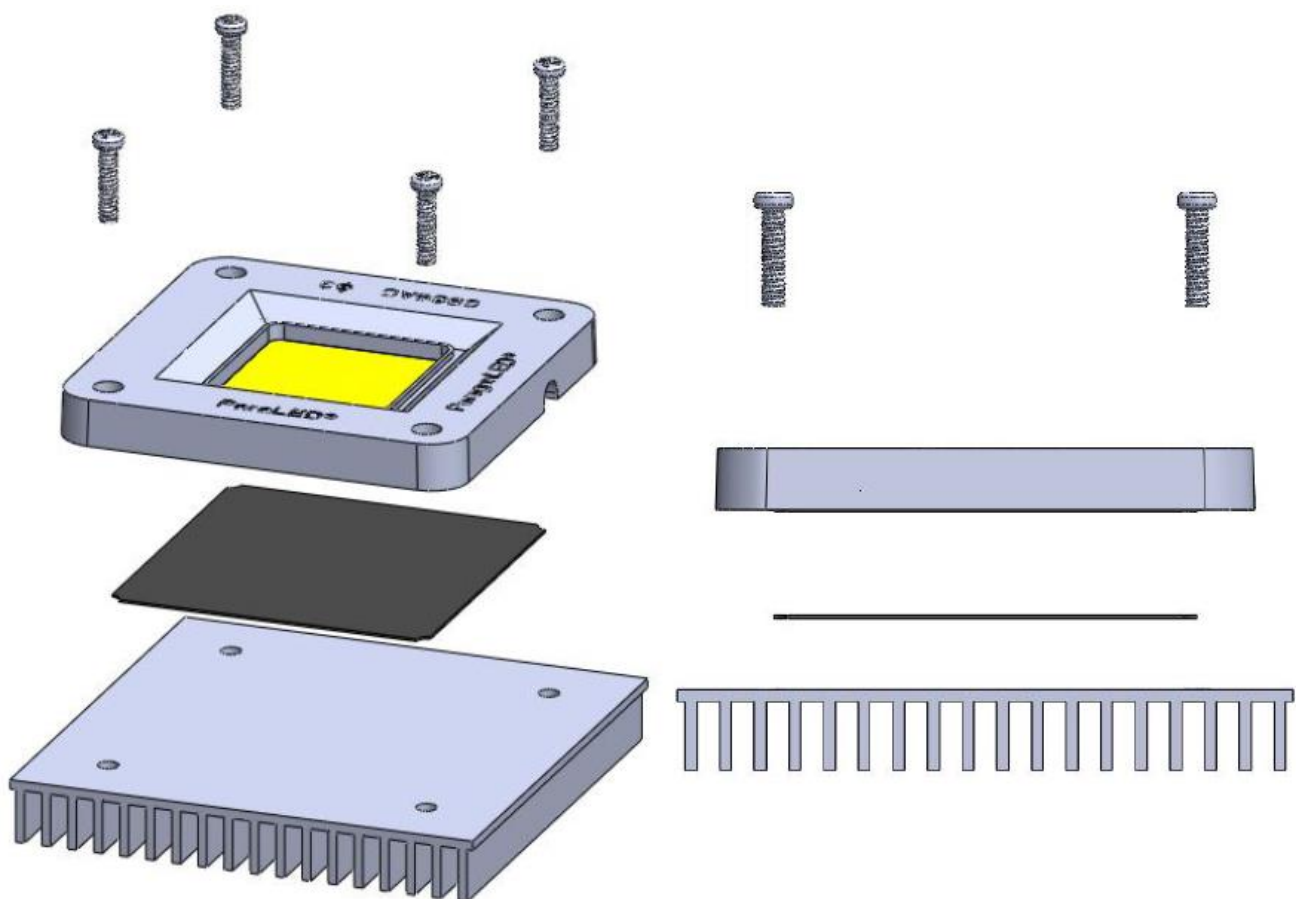
## 4. Reliability Test

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=220V	> 0 x 1.1
Total Luminous Flux	VF=220V	< L x 0.85

## 5. Instruction of ring

***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.***