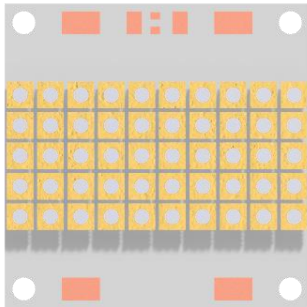


## CL5-5X10 DATASHEET

UV-A 365 / 395nm  
UV-C 270nm



Revision Date: 28/02/2025



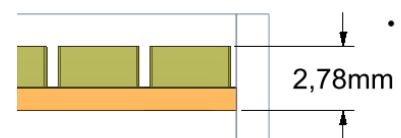
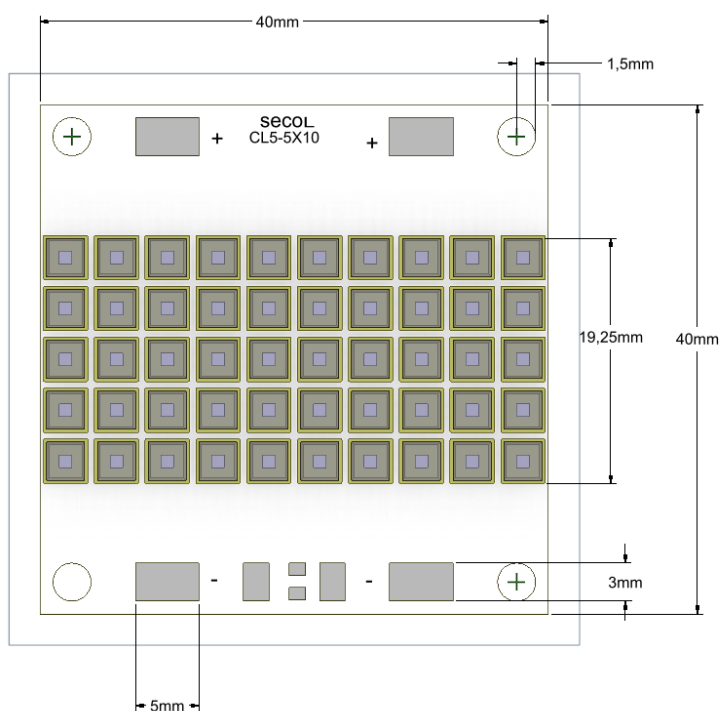
### FEATURES

- High Power LED
- Long Working Life
- 50,000 hours of use
- Aluminum Body
- High Energy Savings
- Wide Illumination Angle

### APPLICATION AREAS

- UV-A
  - Ink and Paint Curing
  - Resin Curing
  - Medical Application
  - Barcode Reading
- UV-C
  - Disinfection

### MECHANICAL DIMENSIONS (mm)



## ELECTRICAL PROPERTIES

Initial Optical/Electrical Characteristic  
 Ta=25°C (Room Temperature)

**1.UV-A.1 365nm**

Parameter	Symbol	Condition	Min.	Ort.	Max.	Unit
Operating Voltage	Vf1	If = 10 $\mu$ A	1,9	--	2,5	V
	Vf2	If = 3,5 A	18,5	19	20,5	V
Reverse Current	Ir	Vr =5 V	--	--	2	$\mu$ A
Recommended Operating Current	If		--	3500	4000	mA
Wavelength	CCT	If =3,5A	362,5	365	367,5	nm

**2.UV-A.2 395nm**

Parameter	Symbol	Condition	Min.	Ort.	Max.	Unit
Operating Voltage	Vf1	If = 10 $\mu$ A	1,9	--	2,5	V
	Vf2	If = 3,5 A	14	16	17	V
Reverse Current	Ir	Vr =5 V	--	--	2	$\mu$ A
Recommended Operating Current	If		--	3500	4000	mA
Wavelength	CCT	If =3,5A	392,5	395	397,5	nm

**3.UV-C 270nm**

Parameter	Symbol	Condition	Min.	Ort.	Max.	Unit
Operating Voltage	Vf1	If = 10 $\mu$ A	1,9	--	2,5	V
	Vf2	If = 1,5 A	25,5	26,5	28,5	V
Reverse Current	Ir	Vr =5 V	--	--	2	$\mu$ A
Recommended Operating Current	If		1200	1500	1750	mA
Wavelength	CCT	If =1,5A	260	270	280	nm

\*Please contact us for your special requests.

## CL5-5X10 DATASHEET

### UV-A 365 / 395nm UV-C 270nm



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Absolute Maximum Ratings  
Ta: 25°C (Room Temperature)

#### 1.UV-A.1 365nm

Parameter	Symbol	Condition	Değer	Unit
DC Operating Current	If	Ta: 25 °C	≤3500	mA
Reverse Voltage	Vr	Ta: 25 °C	≤ 5	V
Storage Temperature	Tstg		-40 ~ 85	°C
Operating Temperature	Topr		-40 ~ 85	°C
Soldering Terms*	Tsol	≤ 10 saniye	≤ 260	°C

#### 2.UV-A.2 395nm

Parameter	Symbol	Condition	Değer	Unit
DC Operating Current	If	Ta: 25 °C	≤3500	mA
Reverse Voltage	Vr	Ta: 25 °C	≤ 5	V
Storage Temperature	Tstg		-40 ~ 85	°C
Operating Temperature	Topr		-40 ~ 85	°C
Soldering Terms*	Tsol	≤ 10 saniye	≤ 260	°C

#### 3.UV-C 270nm

Parameter	Symbol	Condition	Değer	Unit
DC Operating Current	If	Ta: 25 °C	≤1500	mA
Reverse Voltage	Vr	Ta: 25 °C	≤ 5	V
Storage Temperature	Tstg		-40 ~ 85	°C
Operating Temperature	Topr		-40 ~ 85	°C
Soldering Terms*	Tsol	≤ 10 saniye	≤ 260	°C

\* Our products are suitable for SMD Pick and Place and reflow soldering. We can not guarantee the results for manual soldering and different temperatures.

## CL5-5X10 DATASHEET

**UV-A 365 / 395nm**  
**UV-C 270nm**



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### SOLDERING

\*This LED uses a silicone resin for the encapsulating resin frame or resin area. If excess pressure is applied to the silicone resin, it may cause the wire to break causing a catastrophic failure.

\*Repairing should not be done after the LEDs have been soldered. It should be confirmed beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.

\*When soldering, do not apply stress to the LED while the LED is hot.

\*When flux is used, it should be a halogen free flux. Ensure that the manufacturing process is not designed in a manner where the flux will come in contact with LEDs.

\*During and after soldering an electric wire to the electrode, ensure that tension is not applied to the electric wire. This may cause the electrode to be damaged and reduce the adhesive strength of the electrode to the package.

### CAUTIONS

\*The circuit must be designed to ensure that the Absolute Maximum Ratings are not exceeded for each LED. The LEDs should be operated at a constant current per LED. In the case of operating at a constant voltage, serial connection is recommended. If shunt connection is used, it may cause the currents flowing through the LEDs to vary due to the variation in the forward voltage characteristics of the LEDs on the circuit.

\*This LED is designed to be operated at a forward current. Ensure that no voltage is applied to the LED in the forward/reverse direction while the LED is off. If the LEDs are used in an environment where reverse voltages are applied to the LED continuously, it may cause electrochemical migration to occur causing the LED to be damaged. When not in use for a long period of time, the system's power should be turned off to ensure that there are no issues.

\*When using the LEDs with a dimmer, the color may vary depending on the current through the LED, it is recommended to operate the LED with PWM to minimize this issue.

\*If the LEDs are used for outdoor applications, ensure that necessary measures are taken.

### ELECTROSTATIC DISCHARGE (ESD)

\*This LED is sensitive to transient excessive voltages. If this excessive voltage occurs in the circuit, it may cause the LED to be damaged causing issues. Ensure that when handling the LEDs, necessary measures are taken to protect them from an ESD discharge.

\*Ensure that all necessary measures are taken to prevent the LEDs from being exposed to transient excessive voltages.

\*If the tool used is an insulator, ensure that necessary measures have been taken to protect the LED from transient excessive voltages.