DATA SHEET: CKA7001C03 ULTRAVIOLET C LIGHT EMITTING DIODE

Features :

• Lighting Color(Peak Wavelength):275nm

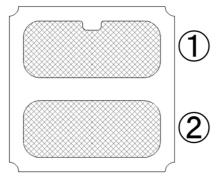
Applications :

- Disinfection
- Water Clarification
- Air Cleaning

Package :

• Surface Mount Type Ceramic Package

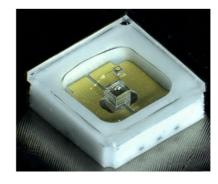
PIN Configuration :



PIN No.	PIN Name			
1	Cathode			
2	Anode			

Ordering Information :

Part Number	Order Number	Package	Supplying Form	
CKA7001C03	CKA7001C03	Surface Mount Type	•Embossed 12 mm wide	
		Ceramic Package	•Pin 1 (Cathode) is left side, when the	
			perforation side of tape is upside.	
			•Reel Qty 1,000pcs/reel	





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CDK

Absolute Maximum Ratings :

Parameter	Symbol	Rating	Unit
Forward Current	I _F	50	mA
Storage Temperature	Tstg	-30~85	°C
Junction Temperature	Tj	100	°C

Electrical and Optical Characteristics :

(IF = 20mA, T_A=25℃)

Parameter	Symbol	MIN.	TYP.	MAX.	Unit
Forward Voltage	V _F	3.7	5.2	6.8	V
Peak Wavelength	λ_{P}	265	275	285	nm
Radiant Flux	Po	2.0	3.0	-	mW
Spectrum Half Width	Δλ	-	12.0	-	nm
Viewing Angle	201/2		120		deg.
Thermal Resistance, Junction to Solder Point	RJ.S		30		°C/W

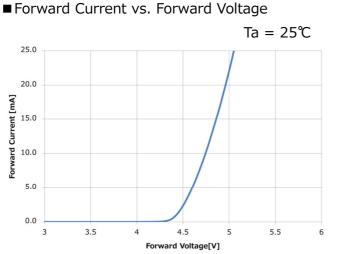
Notes:

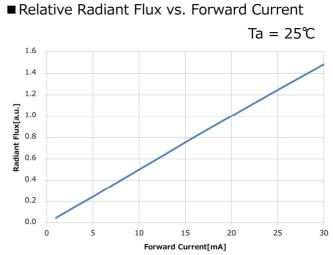
1. Radiant Flux(Po) measurement tolerance is \pm 10%

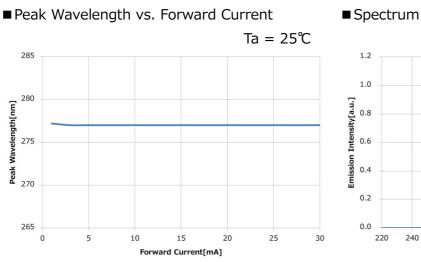
2. Peak Wavelength(λp) measurement tolerance is ± 3nm

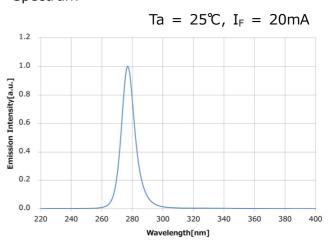
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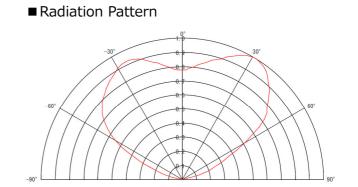






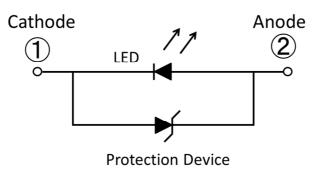




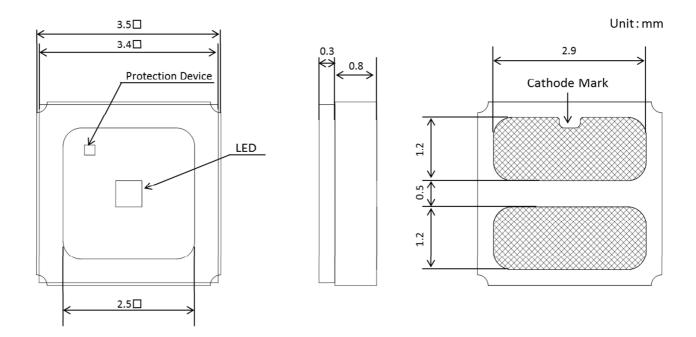




Internal Circuit :



Package Dimensions :



Recommended Soldering Conditions :

Recommended Soldering Conditions are provided on the CDK Web site.

 $[Original Products] \rightarrow [UV-C LED] \rightarrow [Design Support]$

URL

http://www.en.cdk.co.jp/products/highfrequency/rf/uvc/uvcled/designsupport/index.html

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[CAUTION]

Although this device is designed to be as robust as possible, ESD (Electrostatic Discharge) can damage this device. This device must be protected at all times from ESD. Static charges may easily produce potentials of several kilovolts on the human body or equipment, which can discharge without detection. Industry-standard ESD precautions should be used at all times.

- [A CAUTION : Eye Safety Guidelines]
- LEDs emit very strong UV radiation.
- Do not expose to the human body and eyes during the LED light emitting because UV(UVC) light can be bad for human.
- $\cdot\;$ To prevent even inadequate exposure, wear protective eyewear.
- If LEDs are embedded in devices, please indicate warning labels against the UV light LED used.
- Keep out of reach of children.

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