

Features :

- Lighting Color (Peak Wavelength):275nm
- 3 to 6.5mW available depending on the current setting



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	Туре
CL7002C3	CL7002C3	Surface Mount Type	•Embossed 12 mm wide
		Ceramic Package	\cdot Pin 1 (Cathode) is left side, when the
			perforation side of tape is upside.
			·Reel Qty 1000pcs



ULTRAVIOLET C LIGHT EMITTING DIODE

Absolute Maximum Ratings :

Parameter	Symbol	Rating	Unit
Forward Current	I _F	150	mA
Storage Temperature	Tstg	-30~85	°C
Junction Temperature	Tj	100	°C

Electrical and Optical Characteristicss:

 $(IF = 100 \text{mA}, T_A = 25^{\circ} \text{C})$

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	7.0	10.0	-	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

Radiant Flux vs. Forward Current at Ta= 25°C

Forward Current [mA]	MIN. [mW]	TYP. [mW]	MAX, [mW]
100	7.0	10.0	_
150	_	15.0	_





■ Radiation Pattern





Internal Circuit :



Package Dimensions :





[CAUTION]

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DATA SHEET: CL7002C3



[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 humans.
- 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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Revision History

Version	Change to current version	Page(s)
CDS-0053-03	Preliminary data sheet	N/A
Nov 2018		
CDS-0053-05	Removed "Preliminary" from title	All
Jan 2019	Added Reel Quantity Information	1
	Changed Electrical and Optical Characteristics	2
	Added Measurement Tolerance	2
	Changed the Radiation Pattern	3
CDS-0053-06	Updated "Applications" information	1
Feb 2019		
CDS-0053-07	Updated Features list	1
April 2019	Added "Radiant Flux vs. Forward Current" table	2