

Cautions on Use(ver.3)

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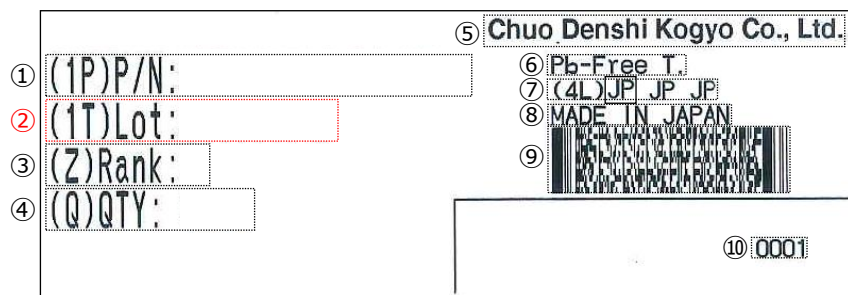
28th Dec., 2018

Chuo Denshi Kogyo Co., LTD

1. Lot traceability

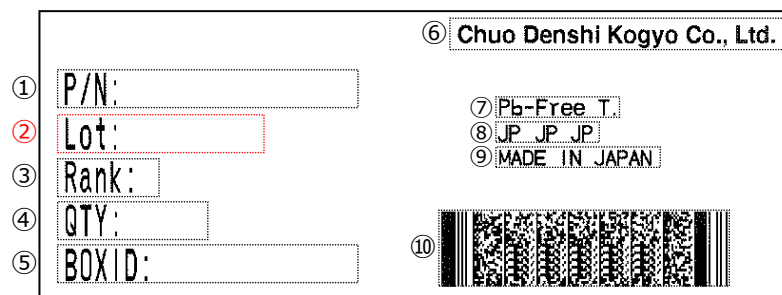
- ❑ When inquiries, please contact the lot number listed on the label.
- ❑ If you do not understand the **lot number**, we will not be able to trace the lot at our company, so please be careful.

Reel Label pront contents



No	Display contents
1	Product name
2	Lot Number
3	Rank
4	QTY
5	CDK Company name
6	Lead-free
7	Country of manufacture(diffusion , assemble , test)
8	Country of origin
9	2D bar code
10	Reel number

Box Label pront contents

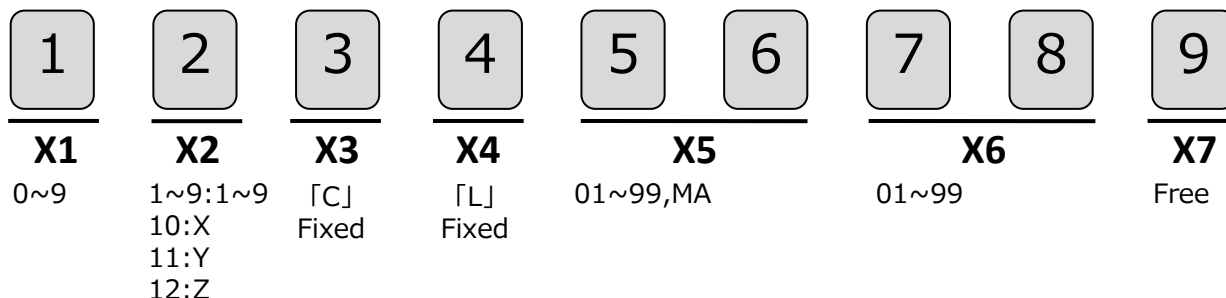


No	Display contents
①	Product name
②	Lot Number
③	Rank
④	QTY
⑤	BOX ID
⑥	CDK Company name
⑦	Lead-free
⑧	Country of manufacture(diffusion , assemble , test)
⑨	Country of origin
⑩	2D bar code

1. Lot traceability

□ The following numbers are included in the Lot Number.

It consists of 9 alphanumeric characters

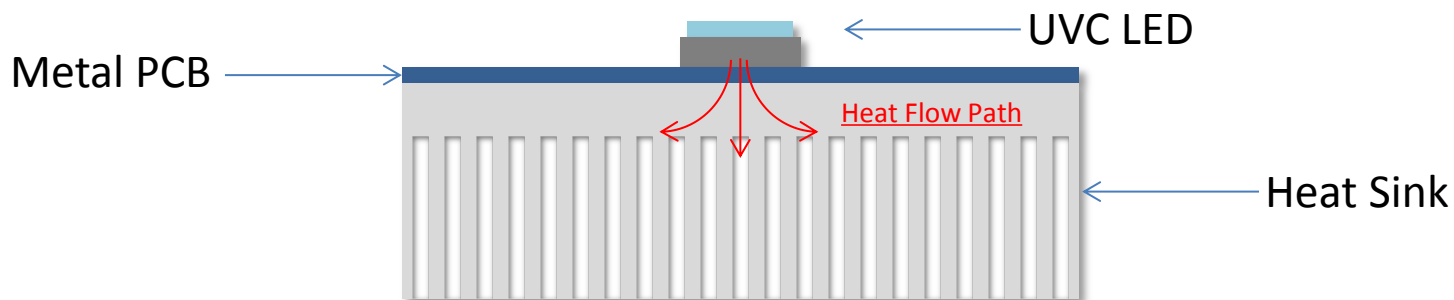


Lot Numbering System

Lot Number Code	Description
X1	Christian Era(Last digit)
X2	Month
X3	「C」Fixed
X4	「L」Fixed
X5	Sorting machine Unit number
X6	Internal management number
X7	Free

2. Thermal Management

- ❑ When the forward voltage is applied across the junction of the UVC LED, forward current flows through the LED and electrical power is dissipated as both UV light and heat. The UVC LEDs dissipate most of their power in the form of heat.
- ❑ The amount of heat generation due to the input power is affected by the thermal resistance of the circuit boards and the density of the UVC LED placements together with other components. Please combine the UVC LED with a metal PCB and a large volume-Heat Sink(Heat Block), a mini(compact / slim)-air or water cooler, etc.
- ❑ Please design the LED module or system in customer that the temperature of the LED Package does not exceed the maximum junction temperature(T_j).



3. Electrostatic Discharge (ESD)

- ❑ Although this device is designed to be as robust as possible, ESD (Electrostatic Discharge) can damage the UVC LED.
- ❑ The UVC LED 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.

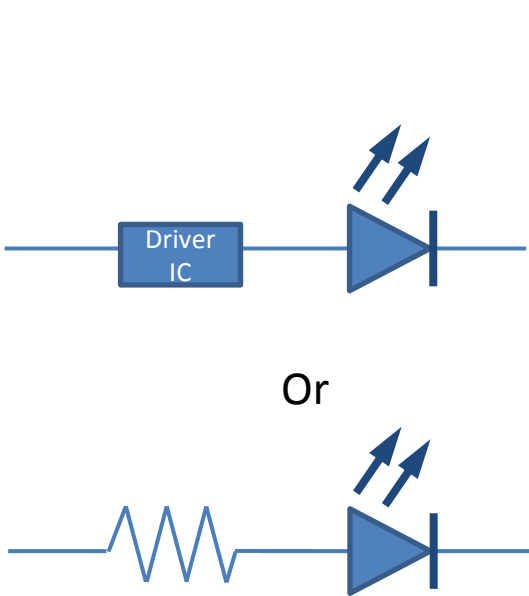
4. Eye Safety Guidelines

- The UVC LEDs emit very strong UV radiation.
- Do not expose to the human body and eyes during the UVC LED light emitting because UVC LED light can be bad for human.
- To prevent even inadequate exposure, wear protective eyewear.
- If the UVC LEDs are embedded in devices, please indicate warning labels against the UV light LED used.
- Keep out of reach of children.

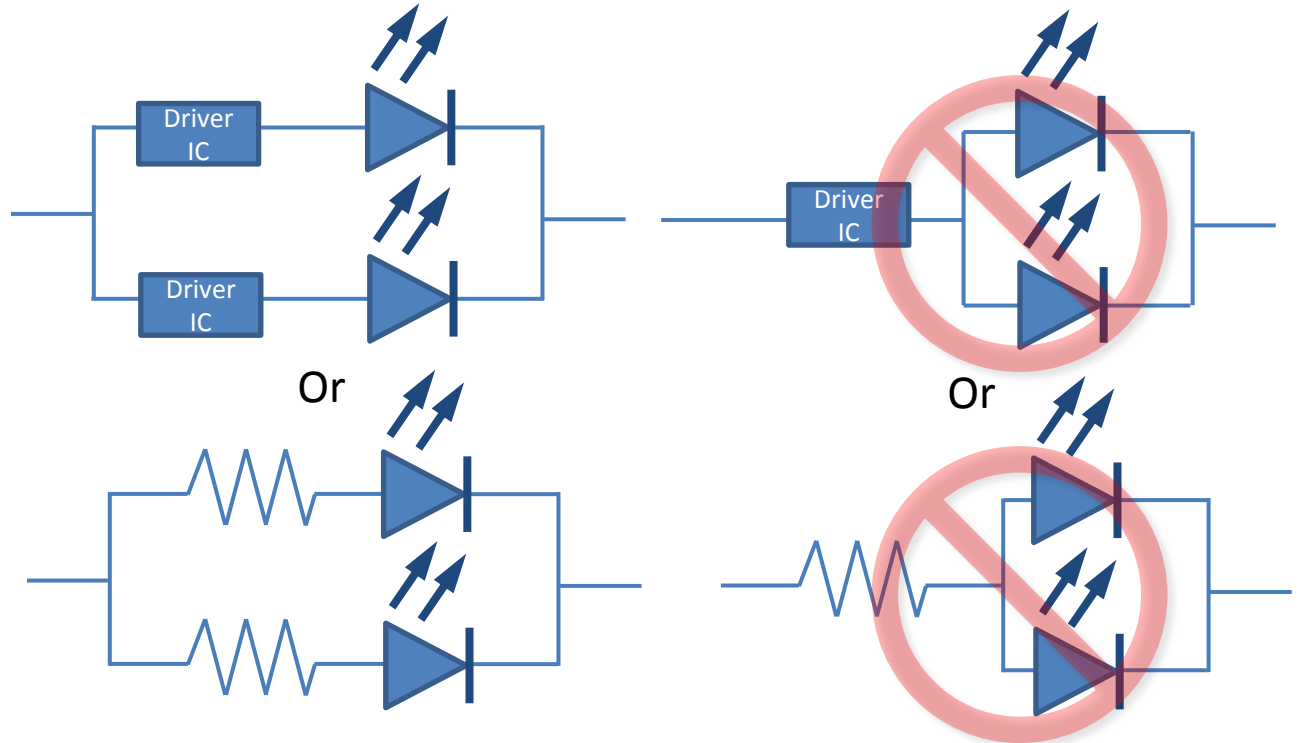
5. Recommended Circuit

❑ The UVC LED is a current-operated device. In general, there can be various forward voltages for LEDs. In order to ensure intensity uniformity on multiple LEDs connected in parallel in an application, constant-current operation by driver IC controller or a current limiting resistor be incorporated in the drive circuit is recommended.

A) Single LED circuit

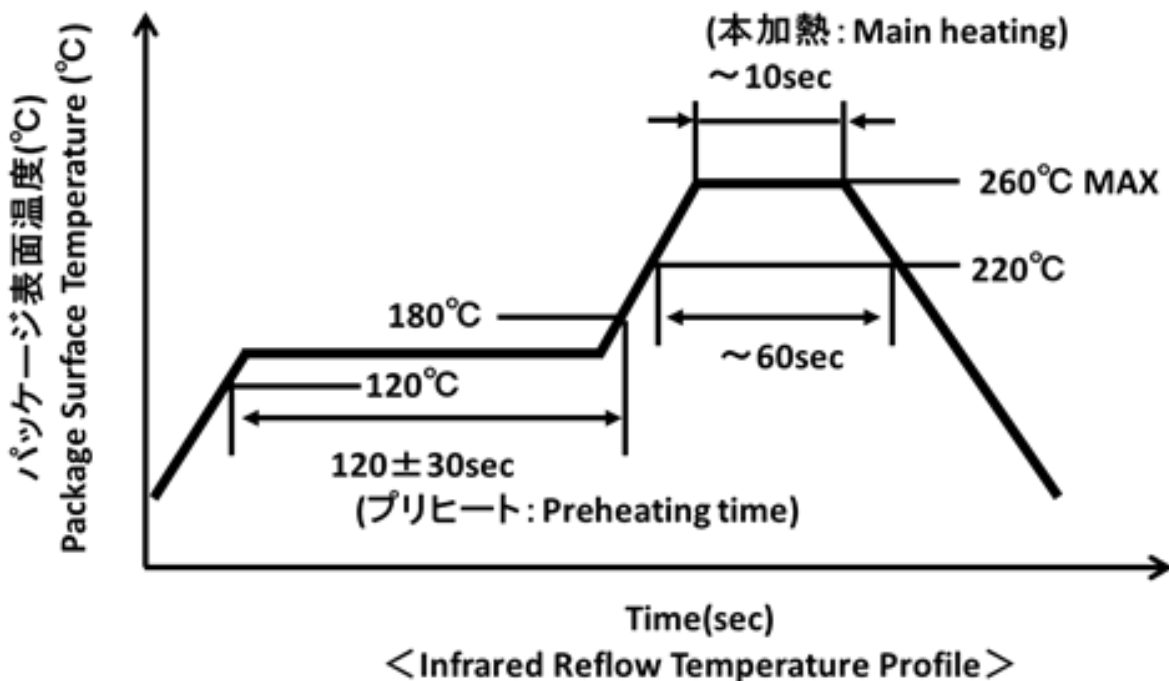


B) Multiple LEDs circuit



6. Recommended Soldering Conditions

Recommended Soldering Conditions of Infrared Reflow
〔Hot Air, Infrared + Hot Air Reflow Included〕



For details, please check the following URL

<http://www.en.cdk.co.jp/products/highfrequency/rf/uvcl/uvclcd/designsupport/index.html>

CDK

Chuo Denshi Kogyo Co., Ltd.