

## High Performance Laser Diode Series

# Ultraviolet in TO-9 CAN Package

## KLC310FL01WW

### Overview

Nuvoton Technology Corporation Japan provides a series of ultraviolet laser diode. The laser diode which emits 378nm laser light, is assembled in a conventional TO-9 CAN package. Unique compound semiconductor process technology and low optical loss structure can realize high output power and high reliability lasers which are suitable for industrial use.

### Features

- Wavelength: 378 nm (typ.)
- High Output Power, Multiple Transverse Mode
- Emitter Size: 15um x 1um
- Conventional TO-9 Package , 2pin

### Applications

- Laser Direct Imaging
- Material Processing
- Analysis, Measurement
- Display
- Other Industrial Use

### Absolute Maximum Ratings

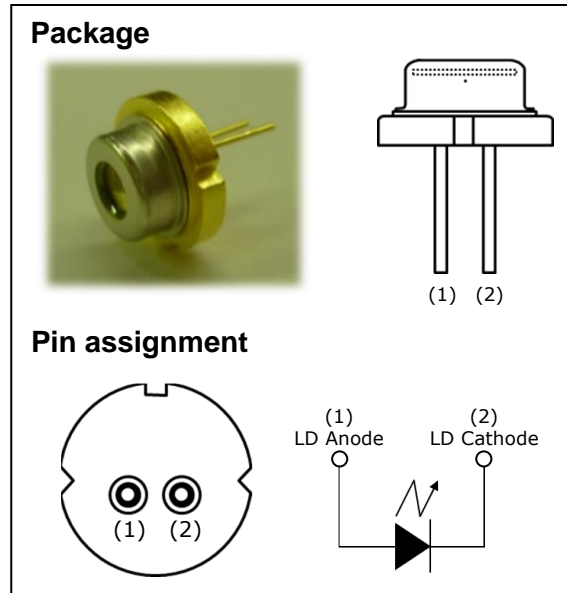
Item	Symbol	Value	Unit	Condition
Output power	Po	0.6	W	CW
Operating case temperature	Tc	+20 to +30	°C	CW
Storage temperature	Tstg	-40 to +85	°C	-

### Electrical and Optical Characteristics

Tc=25°C, CW

Item	Symbol	Min.	Typ.	Max.	Unit	Condition	
Threshold current	Ith	-	340	500	mA	-	
Operating current	Iop	420	620	820	mA	0.5W	
Operating voltage	Vop	-	5.0	5.5	V	0.5W	
Wavelength	$\lambda$	-	378	380	nm	0.5W	
Beam divergence	Parallel <sup>1)</sup>	$\theta_h$	10	18	28	deg	0.5W
	Perpendicular <sup>1)</sup>	$\theta_v$	32	39	46	deg	0.5W

Note) 1) Full width at 1/e<sup>2</sup> of the peak intensity.



The products and product specifications described in this document are subject to change without notice for modification and/or improvement. At the final stage of your design, purchasing, or use of the products, therefore, ask for the most up-to-date Product Standards in advance to make sure that the latest specifications satisfy your requirements.