

## High Performance Laser Diode Series

# Violet in TO-5.6 CAN Package

## KLC433FS01WW

### ■ Overview

Nuvoton Technology Corporation Japan provides a series of violet laser diode. The laser diode which emits 402nm laser light, is assembled in a conventional TO-5.6 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: 402 nm (typ.)
- High Output Power, Multiple Transverse Mode
- Emitter Size: 14μm x 1μm
- Extended Operating Temperature (0 to +50 degrees C)
- Conventional TO-5.6 Package , 3pin

### ■ Applications

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

### ■ Absolute Maximum Ratings

Item	Symbol	Value	Unit	Condition
Output power	Po	1.4	W	CW
Operating case temperature	Tc	0 to +50	°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	-	130	200	mA	-
Operating current		Iop	600	720	800	mA	1.2W
Operating voltage		Vop	-	4.4	5.2	V	1.2W
Wavelength		λ	395	402	405	nm	1.2W
Beam divergence	Parallel <sup>1)</sup>	θh	8	12	20	deg	1.2W
	Perpendicular <sup>1)</sup>	θv	40	44	48	deg	1.2W

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

