

High Performance Laser Diode Series

Violet in TO-5.6 CAN Package

KLC431FS01WW

■ 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: 7μm 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

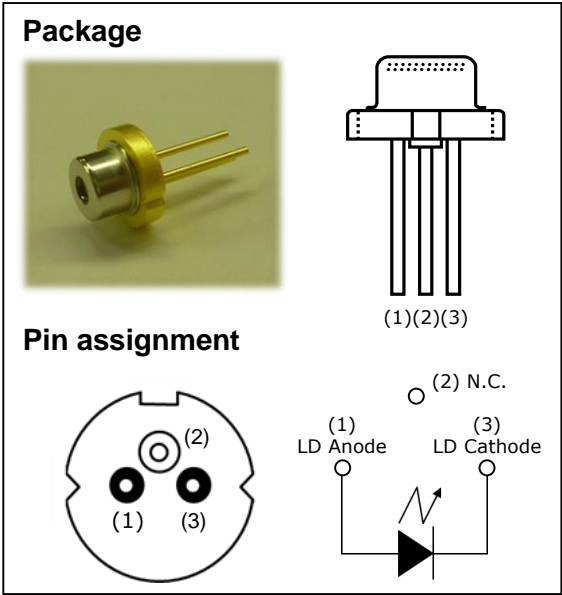
Item	Symbol	Value	Unit	Condition
Output power	Po	1.0	W	CW
Operating case temperature	Tc	0 to +50	°C	CW
Storage temperature	Tstg	-40 to +85	°C	-

■ Electrical and Optical Characteristics

Tc=25°C, CW

Item		Symbol	Min.	Typ.	Max.	Unit	Condition
Threshold current		Ith	-	110	150	mA	-
Operating current		Iop	340	440	540	mA	0.8W
Operating voltage		Vop	-	5.0	5.8	V	0.8W
Wavelength		λ	395	402	405	nm	0.8W
Beam divergence	Parallel ¹⁾	θh	8	15	20	deg	0.8W
	Perpendicular ¹⁾	θv	36	40	44	deg	0.8W

Note) 1) Full width at 1/e² of the peak intensity.



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