

High Performance Laser Diode Series

Indigo in TO-5.6 CAN Package

KLC420FS01WW

Overview

Nuvoton Technology Corporation Japan provides a series of indigo laser diode. The laser diode which emits 420nm 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: 420 nm (typ.)
- High Output Power, Multiple Transverse Mode
- Emitter Size: 15um x 1um
- Conventional TO-5.6 Package , 3pin

Applications

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

Absolute Maximum Ratings

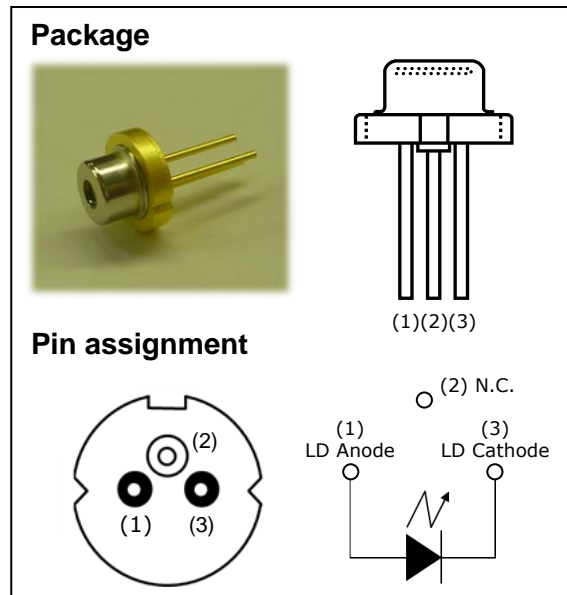
Item	Symbol	Value	Unit	Condition
Output power	Po	2.0	W	CW
Operating case temperature	Tc	+20 to +30	°C	CW
Storage temperature	Tstg	-40 to +85	°C	-

Electrical and Optical Characteristics

Tc=25°C, CW

Item	Symbol	Min.	Typ.	Max.	Unit	Condition	
Threshold current	Ith	-	130	200	mA	-	
Operating current	Iop	750	880	1000	mA	1.7W	
Operating voltage	Vop	-	4.5	5.2	V	1.7W	
Wavelength	λ	415	420	425	nm	1.7W	
Beam divergence	Parallel ¹⁾	θ_h	8	14	20	deg	1.7W
	Perpendicular ¹⁾	θ_v	36	41	46	deg	1.7W

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



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