

High Performance Laser Diode Series

Violet in TO-9 CAN Package

KLC432FL01WW

■ 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-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: 402 nm (typ.)
- High Output Power, Multiple Transverse Mode
- Emitter Size: 30um x 1um
- Extended Operating Temperature (0 to +50 degrees C)
- 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	3.3	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	-	0.43	0.53	A	-
Operating current		Iop	1.6	1.8	2.2	A	3.0W
Operating voltage		Vop	-	4.7	5.5	V	3.0W
Wavelength		λ	395	402	405	nm	3.0W
Beam divergence	Parallel ¹⁾	θ_h	8	13	20	deg	3.0W
	Perpendicular ¹⁾	θ_v	36	41	46	deg	3.0W

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

