

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

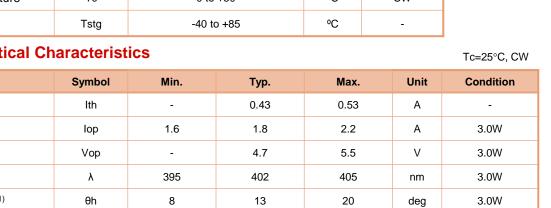
Absolute Maximum Ratings

- Absolute maximum ratings									
Item	Symbol	Value	Unit	Condition					
Output power	Po	3.3	W	CW					
Operating case temperature	Тс	0 to +50	°C	CW					
Storage temperature	Tstg	-40 to +85	۰C	-					

■ Electrical and Optical Characteristics

	Item	Symbol	Min.	Тур.	Max.	Unit	Condition
Threshold current		lth	-	0.43	0.53	Α	-
Operating cur	rent	lop	1.6	1.8	2.2	Α	3.0W
Operating voltage		Vop	-	4.7	5.5	V	3.0W
Wavelength		λ	395	402	405	nm	3.0W
Beam divergence	Parallel 1)	θh	8	13	20	deg	3.0W
	Perpendicular 1)	θν	36	41	46	deg	3.0W

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



Package

Pin assignment

(1) (2)

(2) LD Cathode

(1) LD Anode