

NDV1742-02

■Features

Optical Output Power: Pulse 50mW
 Can Type: \$\phi_3.8\$ Floating Mounted

Peak Wavelength: 405nm

■Absolute Maximum Ratings

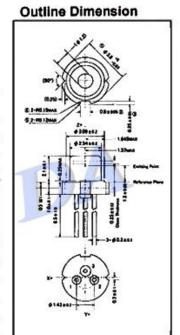
(Tc=25°C)

ltem		Symbol	Absolute Maximum Ratings	Unit	
Optical Output Power	CW	Poc	50	mW	
LD Reverse Voltage		Vr (LD)	2	V	
Storage Temperature		Tstg	-40 ~ 85	°C	
Operating Case Temperature		Tc	-10 ~ 80	°C	

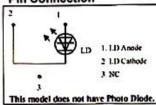
■Initial Electrical/Optical Characteristics

(Tc=25°C

Item		Condition	Symbol	Min	Typ.	Max	Unit
Optical Output Power		CW	Po		•	35	mW
Peak Wavelength*		Po=20mW	λp	400	405	410	nm
Threshold Current		CW	lth		16	25	mA
Operating Current		Po≈20mW	lop		30	70	mA
Slope Efficiency		CW	η	0.9	1.3	1.8	W/A
Operating Voltage		Po=20mW	Vop		4.4	5.5	V
FWHM Beam Divergence*		Po=20mW	θ//	7.0	9.0	12	deg.
		F0-2011W	61	15	19	23	deg.
Emission	n nn 111	Δθ//	-2.0	-	2.0	deg.	
Point /	Angle	Po=20mW	ΔθΤ	-2.5	-	2.5	deg.



Pin Connection



Measuring specifications

All figures in this specification are measured by Nichia's method and may contain measurement deviations.

The above specifications are for reference purpose only and subjected to change without prior notice.

Safety of Laser light

- Laser Light can damege the human eyes and skin. Do not expose the eye or skin to any
 laser light directly and/or through optical lens. When handling the LDs, wear appropriate
 safety glasses to prevent laser light, even any reflections from entering to the eye. Focused
 laser beam through optical instruments will increase the chance of eye hazard.
- These LDs are classified in Class 4 of IEC60825-1 and 21 CFR Part 1040.10 Safety Standards. It is absolutely necessary to take overall safety measures against User's modules, equipment and systems into which Nichia LDs are incorporated and/or integrated.



