

# *NDB7B77*

#### ■Features

- · Multi Transverse Mode
- Can Type: φ9.0 mm Floating Mounted with Protection device

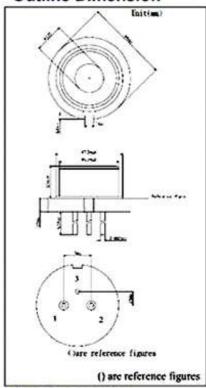
■ Absolute Maximum Ratings

Item	Symbol	Absolute Maximum Ratings	Unit	
Forward Current (Tc=25°C)	If	2.2		
Allowable Reverse Current (Tc=25°C)	Ir (LD)	85	mA	
Storage Temperature	Tstg	-10~85	°C	
Operating Case Temperature	Tc	0~70	°C	

# ■Initial Electrical/Optical Characteristics

Ite	em	Condition	Symbol	Min	Тур.	Max	Unit
Optical Output Power		If=2.0A	Po		(2.3)		W
Dominant '	Wavelength	If=2.0A	λd	440		455	nm
Threshold Current		CW	Ith	150		350	mΑ
Slope Efficiency		CW	η	1.0	340	2.2	W/A
Operating Voltage		If=2.0A	Vop	3.7		5.2	v
Beam Divergence*	Parallel	If=2.0A	θ//	5	(14)	25	۰
	Perpendicular	If=2.0A	θТ	35	(45)	50	0

### **Outline Dimension**



# Pin Connection



This model does not have Photo Diode. This model has a protection device built in as a protection circuit against static electricity.

- ( ) are reference figures.
- Full angle at 1/e<sup>2</sup> from peak intensity

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 damage 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.



## NICHIA CORPORATION

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(Te=25°C)