

Infrared Laser Diode

Part No: LD-808-2A-40-N-2



Features

- ※ Wavelength: $\lambda=808\text{nm}$ (Type)
- ※ Output optical power: 200mW (CW)
- ※ Package: T0-18 ($\Phi 5.6\text{mm}$)

Applications

- ※ Industrial Use

Absolute Maximum Rating at $T_c=25^\circ\text{C}$

Items	Symbols	Values	Unit
Optical Output Power	P_o (CW)	250	mW
Laser Diode Reverse Voltage	V_r	2	V
Photo Diode Reverse Voltage	V_r (PIN)	30	V
Operating Temperature	T_{opr}	$-10\sim+40$	$^\circ\text{C}$
Storage Temperature	T_{stg}	$-40\sim+80$	$^\circ\text{C}$

Electrical and Optical Characteristics at $T_c=25^\circ\text{C}$

Items	Symbols	Min	Type	Max.	Unit	Condition
Optical Output Power	P_o	-	-	250	mW	CW
Threshold Current	I_{th}	-	50	80	mA	CW
Operating Current	I_{op}	-	250	280	mA	$P_o=200\text{mW}$
Slope Efficiency	η	0.5	0.8	-	mW/mA	$P_o=200\text{mW}$
Monitor Current	I_m	-	0.2	0.8	mA	$P_o=200\text{mW}$
Operating Voltage	V_{op}	-	1.9	2.3	V	$P_o=200\text{mW}$
Lasing Wavelength	λ	805	808	812	nm	$P_o=200\text{mW}$
Beam Divergence	//	8	12	14	$^\circ$	$P_o=200\text{mW}$
	\perp	30	35	40	$^\circ$	$P_o=200\text{mW}$
Beam Angle	Δ //	-	-	± 3	$^\circ$	$P_o=200\text{mW}$
	Δ \perp	-	-	± 3	$^\circ$	$P_o=200\text{mW}$
Emission Point Accuracy	$\Delta X, \Delta Y, \Delta Z$	-80	-	+80	um	-

- 1) Measurement condition: CW
- 2) Full angle at half maximum.
- 3) All the above values are measured by OPELUS method.

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Package and Electrical connection

