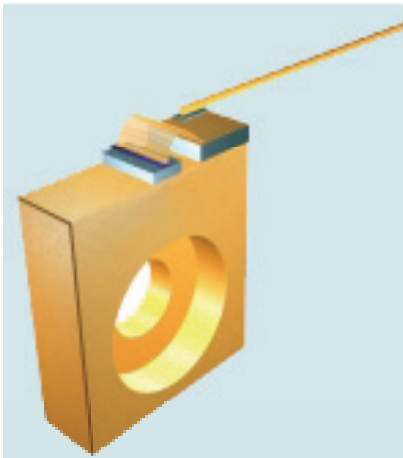


# Infrared Laser Diode

Part No: LD-808-5A-30-G-5



## Features

- ※ Wavelength:  $\lambda=808\text{nm}$ (Type)
- ※ Output optical power: 500mW (CW)
- ※ Package: C-mount-b
- ※ Aperture Size: 50\*1um

## Applications

- ※ Industrial Use

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

Items	Symbols	Values	Unit
Optical Output Power	$P_o$ (CW)	500	mW
Laser Diode Reverse Voltage	$V_r$	2	V
Operating Temperature	$T_{opr}$	$-10\sim+30$	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	$-40\sim+85$	$^\circ\text{C}$

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

Items	Symbols	Min	Type	Max.	Unit	Condition
Optical Output Power	$P_o$	-	500	-	mW	CW
Threshold Current	$I_{th}$	-	120	150	mA	CW
Operating Current	$I_{op}$	-	550	600	mA	$P_o=500\text{mW}$
Slope Efficiency	$\eta$	-	1	1.3	mW/mA	$P_o=500\text{mW}$
Operating Voltage	$V_{op}$	-	1.9	2.3	V	$P_o=500\text{mW}$
Lasing Wavelength	$\lambda$	803	808	815	nm	$P_o=500\text{mW}$
Beam Divergence	//	8	10	12	$^\circ$	$P_o=500\text{mW}$
	$\perp$	35	38	40	$^\circ$	$P_o=500\text{mW}$
Beam Angle	$\Delta$ //	-	-	$\pm 3$	$^\circ$	$P_o=500\text{mW}$
	$\Delta$ $\perp$	-	-	$\pm 3$	$^\circ$	$P_o=500\text{mW}$

1) Measurement condition: CW

2) Full angle at half maximum.

3) All the above values are measured by OPELUS method.

# Infrared Diode

## Package and Electrical connection

