

# Infrared Laser Diode

Part No: LD-808-10W-30-G-5



## Features

- ※ Wavelength:  $\lambda=808\text{nm}$ (Type)
- ※ Output optical power: 10W (CW)
- ※ Package: C-mount-b
- ※ Aperture Size: 600\*1um

## Applications

- ※ Industrial Use

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

Items	Symbols	Values	Unit
Optical Output Power	$P_o$ (CW)	10	W
Laser Diode Reverse Voltage	$V_r$	2	V
Operating Temperature	$T_{opr}$	$-10\sim+30$	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	$-20\sim+85$	$^\circ\text{C}$
Aperture Size	--	600*1	um

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

Items	Symbols	Min	Type	Max.	Unit	Condition
Optical Output Power	$P_o$	-	10	-	W	CW
Threshold Current	$I_{th}$	-	1.1	1.5	A	CW
Operating Current	$I_{op}$	-	10	10.5	A	$P_o=10\text{W}$
Slope Efficiency	$\eta$	-	1.2	1.3	W/A	$P_o=10\text{W}$
Operating Voltage	$V_{op}$	-	2	2.3	V	$P_o=10\text{W}$
Lasing Wavelength	$\lambda$	805	808	812	nm	$P_o=10\text{W}$
Beam Divergence	//	8	10	12	$^\circ$	$P_o=10\text{W}$
	$\perp$	32	36	38	$^\circ$	$P_o=10\text{W}$

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

