

Infrared Laser Diode

Part No: LD-980-10W-30-G-5



Features

- ※ Wavelength: $\lambda = 980\text{nm}$ (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}	-	10.5	11	A	$P_o=10\text{W}$
Slope Efficiency	η	-	1.1	-	W/A	$P_o=10\text{W}$
Operating Voltage	V_{op}	-	2	2.3	V	$P_o=10\text{W}$
Lasing Wavelength	λ	970	980	985	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

