

Infrared Laser Diode

Part No: LD-780-120-60-B-2



Features

- ※ Wavelength: $\lambda = 780\text{nm}$ (Type)
- ※ Low threshold current: $I_{th} = 55\text{mA}$ (Type)
- ※ Output optical power: 120mW
- ※ 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)	130	mW
	P_o (Pulse)	300	mW
Laser Diode Reverse Voltage	V_r	2	V
Operating Temperature	T_{op}	$-10 \sim +60$	$^\circ\text{C}$
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	-	120	-	mW	CW
Threshold Current	I_{th}	-	55	70	mA	CW
Operating Current	I_{op}	-	170	190	mA	$P_o = 120\text{mW}$
Slope Efficiency	SE	0.8	1	-	mW/mA	$P_o = 10\text{mW}$
Operating Voltage	V_{op}	-	2	2.3	V	$P_o = 10\text{mW}$
Lasing Wavelength	λ	775	780	795	nm	$P_o = 10\text{mW}$
Beam Divergence	//	8	10	12	$^\circ$	$P_o = 10\text{mW}$
	\perp	16	20	22	$^\circ$	$P_o = 10\text{mW}$
Beam Angle	$\Delta //$	-	-	± 2	$^\circ$	$P_o = 10\text{mW}$
	$\Delta \perp$	-	-	± 3	$^\circ$	$P_o = 10\text{mW}$

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

