Infrared Laser Diode

Part No: LD-780-05-70-N-2

Features

※ Wavelength: λ=785nm(Type)
※ Low threshold current: Ith=35mA(Type)
※ Output optical power: 5mW
※ Package: TO-18(Φ5.6mm)

Applications

※ Industrial Use

Absolute Maximum Rating at Tc=25℃

Items	Symbols	Values	Unit
Optical Output Power	Po(CW)	7	mW
	Vr(LD)	2	V
Laser Diode Reverse Voltage	Vr(PD)	30	V
Operating Temperature	Topr	-10~+70	℃
Storage Temperature	Tstg	-40~+80	℃

Electrical and Optical Characteristics at Tc=25℃

Items	Symbols	Min	Type	Max.	Unit	Condition
Optical Output Power	Po	-	5	-	mW	CW
Threshold Current	Ith	25	30	35	mA	CW
Operating Current	Iop	35	40	50	mA	Po=5mW
Slope Efficiency	SE	0.3	0.5	0.8	mW/mA	Po=5mW
Operating Voltage	Vop	1.7	1.9	2	V	Po=5mW
Monitor Current	Im	-	0.2	-	mA	Po=5mW
Lasing Wavelength	λ	775	785	795	nm	Po=5mW
Beam Divergence	//	-	11	-	°	Po=5mW
	⊥	-	37	-	°	Po=5mW
Beam Angle	△//	-	-	±2	°	Po=5mW
	△⊥	-	-	±2	°	Po=5mW
Emission Point Accuracy	△X△Y△Z	-80	-	80	um	Po=5mW

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

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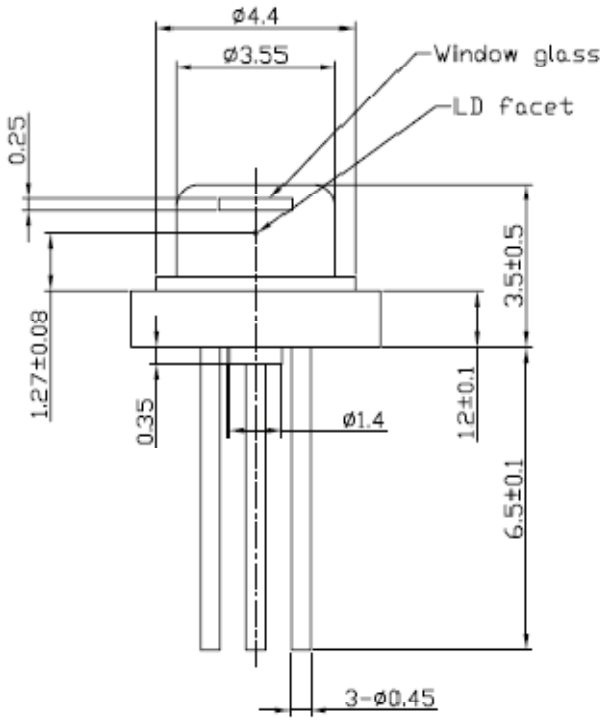
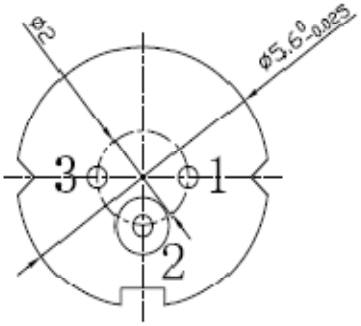
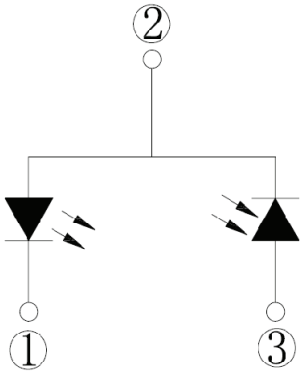
Package and Electrical connection







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