Infrared Laser Diode

Part No: LD-780-60-70-P-2

Features

※ Wavelength: λ=785nm(Type)
※ Low threshold current: Ith=35mA(Type)
※ Output optical power: 60mW(CW)
※ Package: TO-18(Φ5.6mm)

Applications

※ Industrial Use

Absolute Maximum Rating at Tc=25℃

Items	Symbols	Values	Unit
Optical Output Power	Po(CW)	60	mW
	Po(Pulse)	100	mW
Laser Diode Reverse Voltage	Vr	2	V
Photo Diode Reverse Voltage	Vr(PIN)	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	-	60	-	mW	CW
Threshold Current	Ith	25	35	45	mA	CW
Operating Current	Iop	70	85	100	mA	Po=60mW
Operating Voltage	Vop	1.5	2	2.2	V	Po=60mW
Slope Efficiency	η	0.8	1.1	1.3	mW/mA	CW
Monitor Current	Im	0.1	0.5	0.7	mA	Po=60mW
Lasing Wavelength	λ	775	785	795	nm	Po=60mW
Emission Point Accuracy	△X△Y△Z	-80	-	80	um	Po=60mW
Beam Divergence	//	8	9	10	°	Po=60mW
	⊥	15	17	19	°	Po=60mW
Beam Angle	△//	-	-	±2	°	Po=60mW
	△⊥	-	-	±3	°	Po=60mW

1)Measurement condition: CW
2)Full angle at half maximum.
3)All the above values are measured by OPELUS metheod.
4)Im was selected based on customer requirements.

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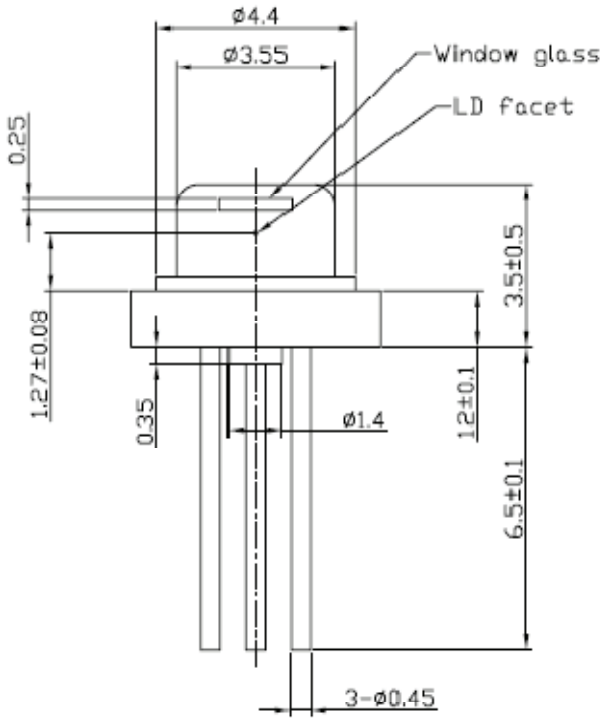
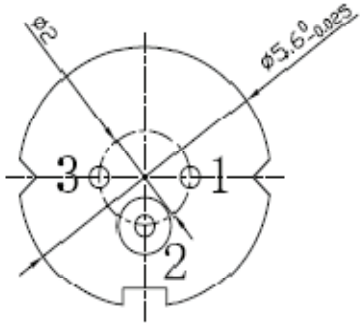
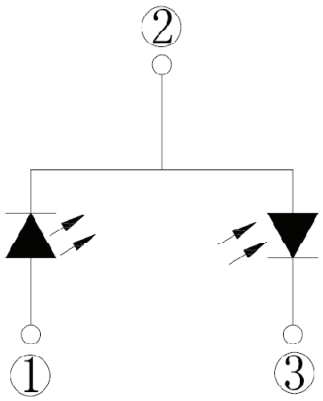
Package and Electrical connection







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