Infrared Laser Diode

Part No: LD-980-100-40-N-2

Features

※ Wavelength: λ=980nm(Type)
※ Output optical power: 100mW
※ Package: TO-18(Φ5.6mm)

Applications

※ Industrial Use

Absolute Maximum Rating at Tc=25℃

Items	Symbols	Values	Unit
Optical Output Power	Po(CW)	100	mW
	Vr(LD)	2	V
Laser Diode Reverse Voltage	Vr(PD)	30	V
Operating Temperature	Topr	-10~+40	℃
Storage Temperature	Tstg	-40~+80	℃

Electrical and Optical Characteristics at Tc=25℃

Items	Symbols	Min	Type	Max.	Unit	Condition
Optical Output Power	Po	-	100	-	mW	CW
Threshold Current	Ith	-	35	55	mA	CW
Operating Current	Iop	-	160	180	mA	Po=100mW
Slope Efficiency	η	0.5	0.8	-	mW/mA	Po=100mW
Operating Voltage	Vop	-	1.6	2.1	V	Po=100mW
Monitor Current	Im	-	0.2	0.8	mA	Po=100mW
Lasing Wavelength	λ	965	980	995	nm	Po=100mW
Beam Divergence	//	8	12	14	°	Po=100mW
	⊥	30	35	40	°	Po=100mW
Beam Angle	△//	-	-	±3	°	Po=100mW
	△⊥	-	-	±3	°	Po=100mW
Emission Point Accuracy	△X△Y△Z	-80	-	80	um	-

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

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Rev.03/Oct.2007

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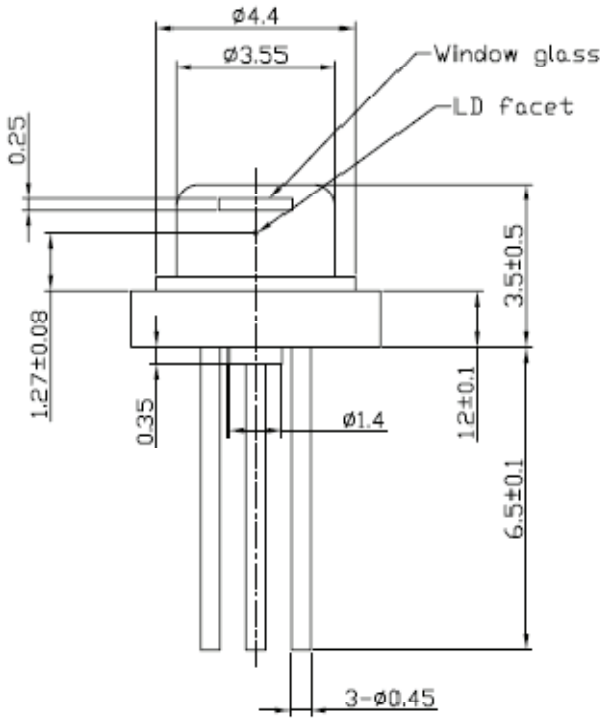
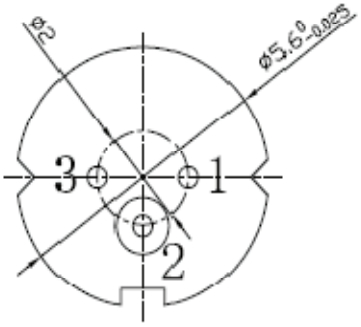
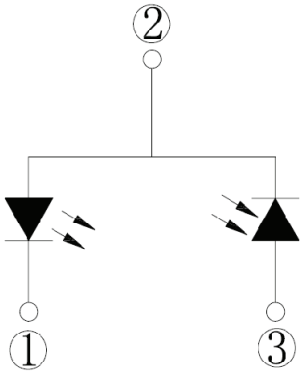
Package and Electrical connection







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