Infrared Laser Diode

Part No: LD-808-3A-40-N-2

Features

※ Wavelength: λ=808nm(Type)
※ Output optical power: 300mW(CW)
※ Package: TO-18(Φ5.6mm)

Applications

※ Industrial Use

Absolute Maximum Rating at Tc=25℃

Items	Symbols	Values	Unit
Optical Output Power	Po(CW)	300	mW
Laser Diode Reverse Voltage	Vr	2	V
Photo Diode Reverse Voltage	Vr(PIN)	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	-	300	-	mW	CW
Threshold Current	Ith	-	50	70	mA	CW
Operating Current	Iop	-	350	370	mA	Po=300mW
Slope Efficiency	η	0.8	1	-	mW/mA	Po=300mW
Monitor Current	Im	-	0.4	0.8	mA	Po=300mW
Operating Voltage	Vop	-	1.8	2.1	V	Po=300mW
Lasing Wavelength	λ	805	808	811	nm	Po=300mW
Beam Divergence	//	9	12	15	°	Po=300mW
	⊥	28	30	35	°	Po=300mW
Beam Angle	△//	-	-	±3	°	Po=300mW
	△⊥	-	-	±3	°	Po=300mW
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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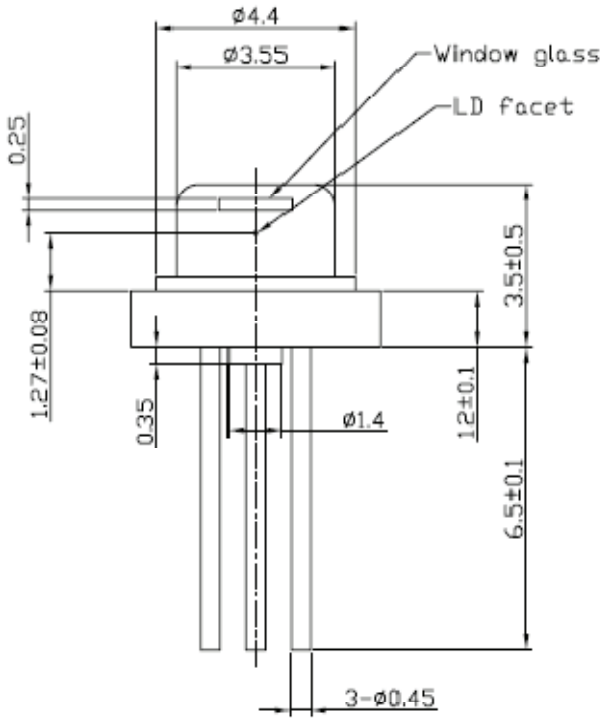
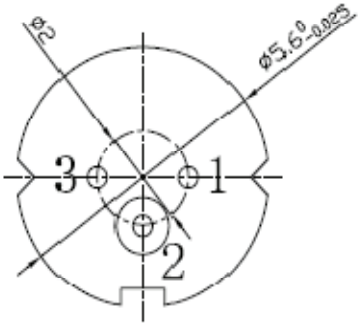
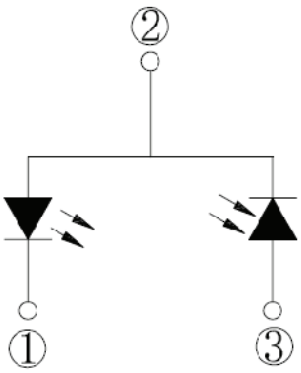
Package and Electrical connection







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