

Egismos DATASHEET

1550m Compact Laser Diode Modules Key features

Visible light $\lambda = 1550\text{nm}$
 Output power = 100mW
 Package type = 5.6mm ϕ
 High reliability

Applications

General Purpose Infrared Red Laser Light Source
 Optical Communication & Infrared Red Laser Module for Industry Application



Laser Diode Solutions

US-D6-8-1550-100 is a MOCVD grown 1550nm band laser diode. It's an attractive light source, with a typical light output power of 100mW. It's suitable for use as high reliability laser diode in a wide range of industrial application.

Electrical and Optical Characteristics at $T_c = 25^\circ\text{C}$

Item	Symbols	Min.	Typ.	Max.	Unit	Condition
Threshold Current	I _{th}	-	15	20	mA	T _C =25°C
Operation Current	I _{op}					
Optical Output Power	P _o	5	-	-	Nm	CW, Kink free
Operating Voltage	V _{op}	-	1.2	1.2	V	P _o =5mW
Monitor Current (PD)	I _m	0.1	-	-	mA	P _o =5mW, V _{RPD} =2V
Dark Current (PD)	I _d	V _{RPD} =10V	-	-	0.1	μA
Capacitance (PD)	C _t	V _{RPD} =10V, f=1MHz	-	10	20	pF
Slope efficiency	SE	0.25	0.35	-	mW/mA	P _o =1 to 4mW
Lasing Wavelength	λ_p	1290	1310	1330	nm	P _o =5mW
Spectral Width	$\Delta\lambda$	-	3	5	nm	P _o =5mW
P-I Kink	K _i	-	-	20	%	P _o <5mW
Rise and fall time	T _{r,tf}	-	-	0.7	ns	P _o =5mW, 10%~90%
Tracking Error	TE	-0.7	-	0.7	dB	P _o =5mW, V _{RPD} =1V
Beam Divergence	$\Theta_{//}$	-	5	-	deg	P _o =5mW
	Θ_{\perp}	-	12	-	deg	P _o =5mW

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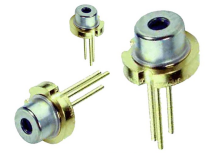
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Absolute Maximum Rating at Tc=25°C

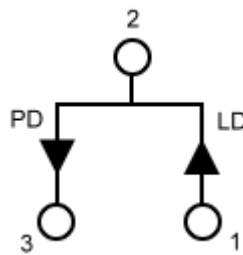
Items	Symbols	Values	Unit
Optical output power	Po	7	mW
Reverse voltage(LD)	V _{RL}	2	V
Reverse Voltage(PD)	V _{RL}	10	V
Operating Temperature	Tc	-10~+40	°C
Storage Temperature	Ts	-45~+85	°C

Note:Pluse condition:Pulse width≤1μs,duty≤50%

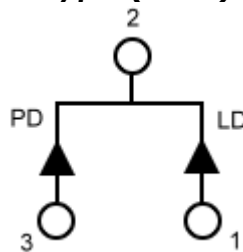


US-D6-8-1550-100

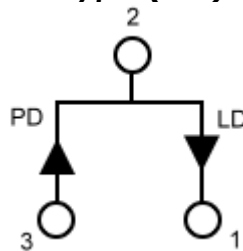
Package Type



P type (P,U,C)



M type (M,R)



N type (N,L,A)

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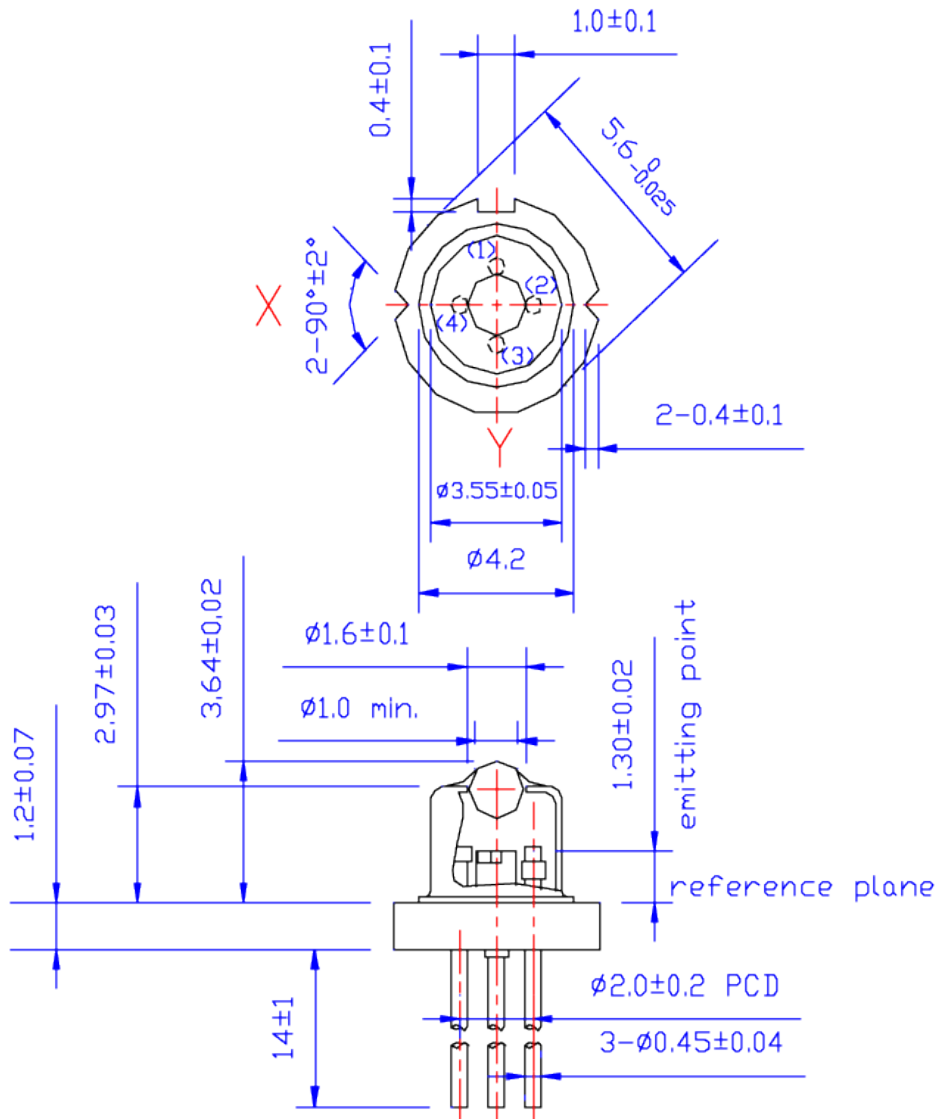
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Laser Diode Package Drawing



US-D6-8-1550-100



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