

Egismos *DATASHEET*

808nm Compact Laser Diode Modules Key features

Visible light $\lambda = 808\text{nm}$
 Output powers = 500mW
 Package type = 9mm ϕ
 High reliability

Applications

General Purpose Infrared Red Laser Light Source
 Medical Application & Infrared Red Laser Module for Industry Application
 Solid State Laser Pumping of Green Laser & High Power Engineering Instruments

Laser Diode Solutions

SS-D6-6-808-500 is a MOCVD grown 808nm band laser diode. It's an attractive light source, with a typical light output power of CW 500mW. It's suitable for use as high reliability laser diode in a wide range of industrial application.



SS-D6-4-808-500

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

Item	Symbols	Min.	Typ.	Max.	Unit	Condition
Optical Output Power	Po	-	500	-	mW	-
Threshold Current	I _{th}	-	100	200	mA	-
Operating Current	I _{op}	-	550	700	mA	Po=500mW
Operating Voltage	V _{op}	-	2.2	3	V	Po=500mW
Peak Wavelength	λ_p	803	808	813	nm	Po=500mW
Beam Divergence	$\Theta_{//}$	4	8	17	deg	Po=500mW
	Θ_{\perp}	20	30	40	deg	Po=500mW
Beam Angle	$\Delta\Theta_{//}$	-	-	± 3.0	deg	Po=500mW
	$\Delta\Theta_{\perp}$	-	-	± 3.0	deg	Po=500mW
Monitor Current	I _m	-	-	-	mA	Po=500mW
Optical Distance	$\Delta X, \Delta Y, \Delta Z$	-	-	± 60	μm	
Polarization	TM mode					

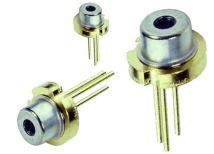
Egismos

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Absolute Maximum Rating at Tc=25°C

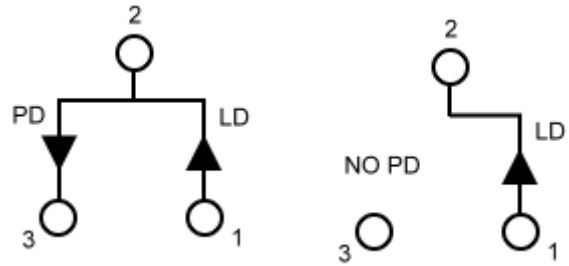
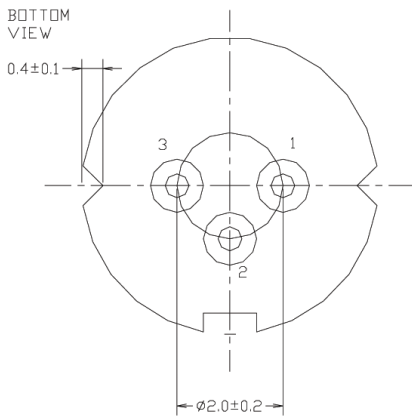
Items	Symbols	Values	Unit
Optical Output Power	Po	500	mW
Laser Diode Reverse Voltage	V	2	V
Photo Diode Reverse Voltage	V	30	V
Operating Temperature	To	-10~+40	°C
Storage Temperature	Ts	-40~+85	°C



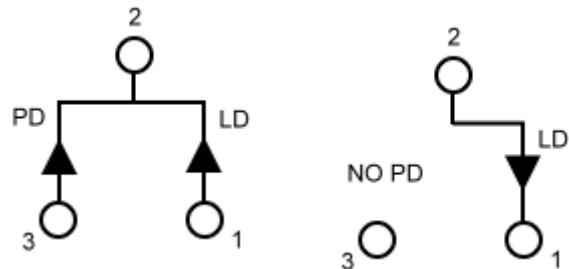
SS-D6-4-808-500

Electrical Connection

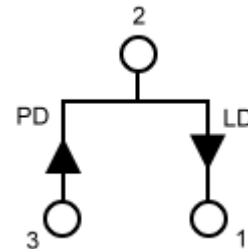
Package Type



P type (P,U,C)



M type (M,R)



N type (N,L,A)

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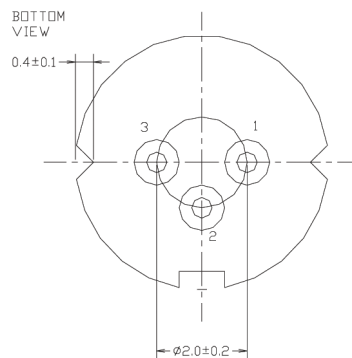
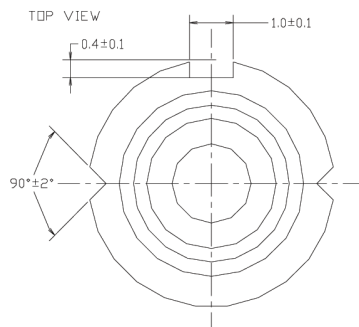
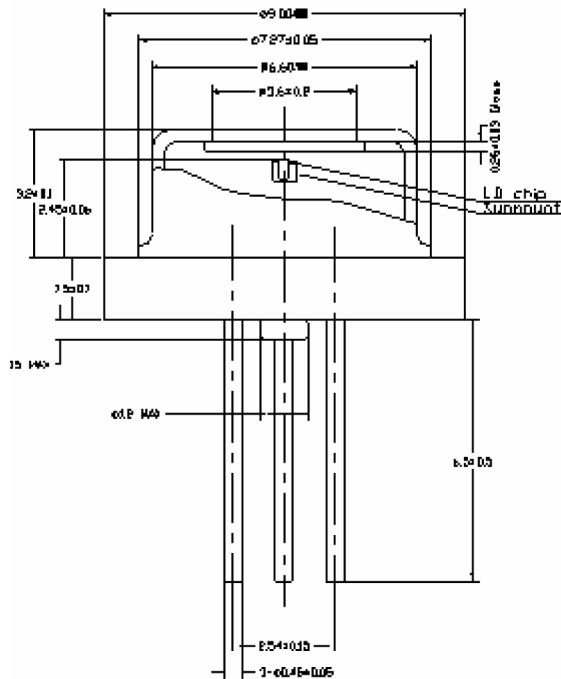
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EGISMOS *DATASHEET*

Laser Diode Package Drawing



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