

Egismos *DATASHEET*

637nm Compact Laser Diode Modules Key features

Visible light $\lambda = 637\text{nm}$
 Output powers = 10mW
 Package type = 5.6mm Φ
 High reliability



SS-D6-5-637-10

Applications

Laser Pointer & General Purpose Red Laser Light Source
 Bar Code Reader & High Precision Measuring Instruments
 Laser Module & High Precision Engineering Instruments

Laser Diode Solutions

SS-D6-5-637-10 is a MOCVD grown 637nm band InGaAlP laser diode. It's an attractive light source, with a typical light output power of 10mW. 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
Optical Output Power	Po	-	10	-	mW	-
Threshold Current	I _{th}	-	30	50	mA	-
Operating Current	I _{op}	-	55	75	mA	Po=10mW
Operating Voltage	V _{op}	-	2.2	2.5	V	Po=10mW
Lasing Wavelength	λ_p	-	637	645	nm	Po=10mW
Beam Divergence	$\Theta_{//}$	6	8	11	deg	Po=10mW
	Θ_{\perp}	25	30	35	deg	Po=10mW
Beam Angle	$\Delta\Theta_{//}$	-	-	± 1.5	deg	Po=10mW
	$\Delta\Theta_{\perp}$	-	-	± 2.5	deg	Po=10mW
Monitor Current	I _m	0.05	0.15	0.3	mA	Po=10mW
Optical Distance	$\Delta X, \Delta Y, \Delta Z$	-	-	± 60	μm	-

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<http://www.egismos.com>
 TEL: +1-888-3481454
 FAX: +1-604-4339864
 E-Mail: sales@eGismos.com

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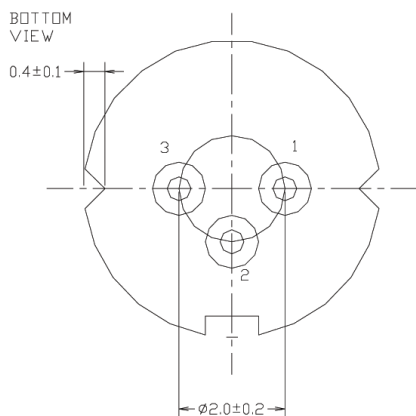
Absolute Maximum Rating at Tc=25°C

Items	Symbols	Values	Unit
Optical Output Power	P	12	mW
Laser Diode Reverse Voltage	V	2	V
Photo Diode Reverse Voltage	V	30	V
Operating Temperature	To	-10~+50	°C
Storage Temperature	Ts	-40~+85	°C

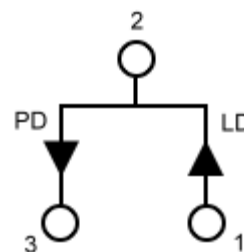


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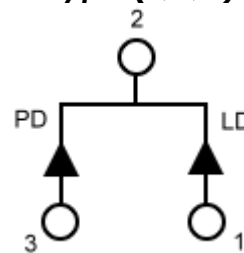
Electrical Connection



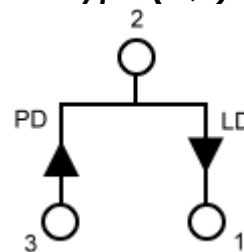
Package Type



P type (P,U,C)



M type (M,R)



N type (N,L,A)

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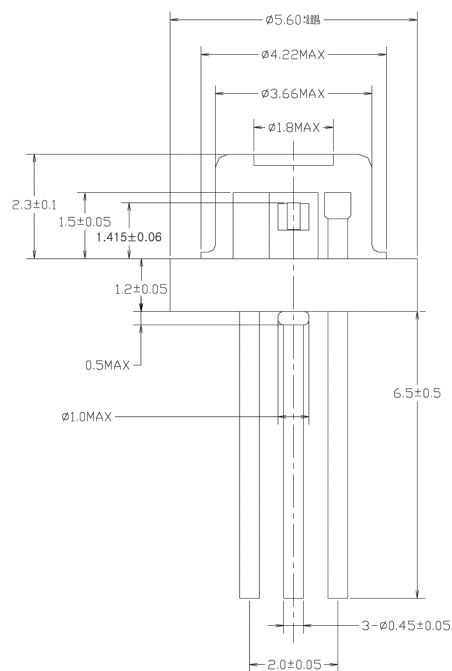
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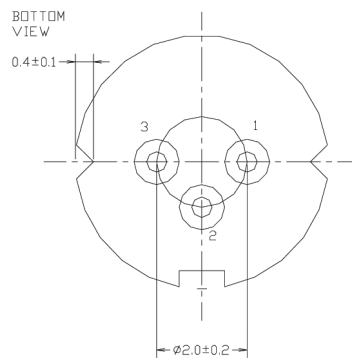
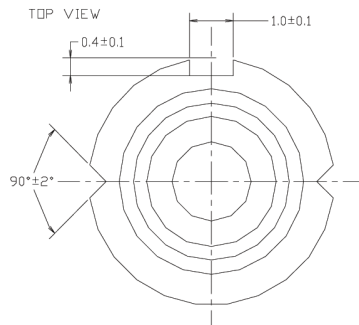
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Laser Diode Package Drawing



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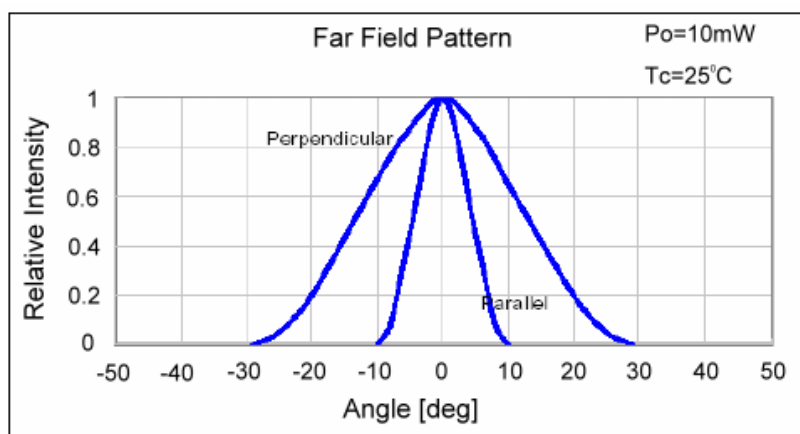
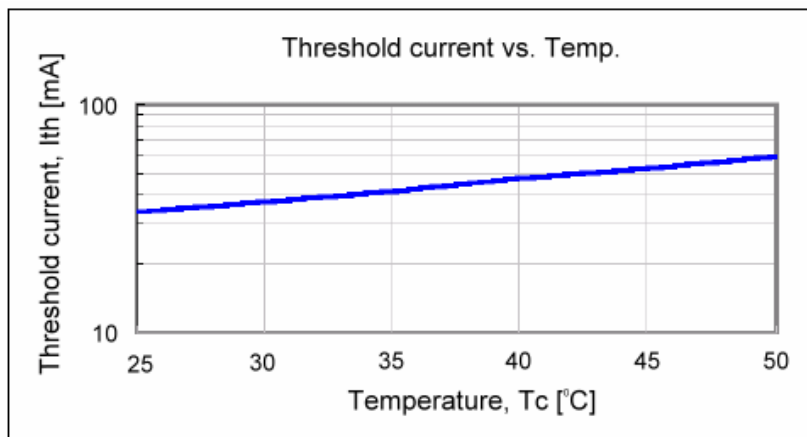
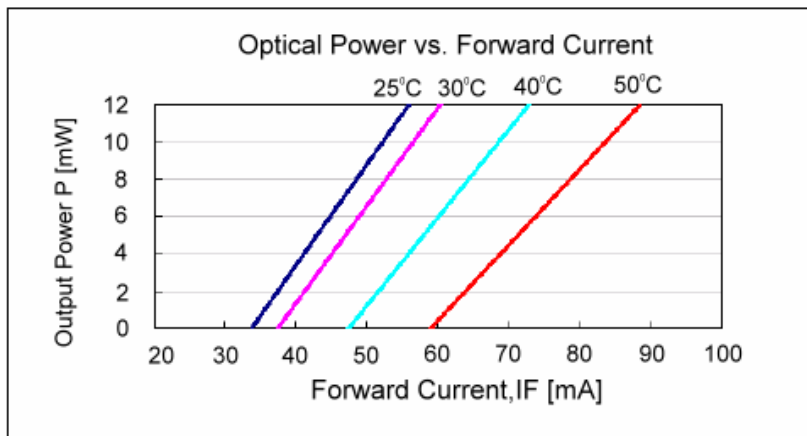
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Example of Representative Characteristics I



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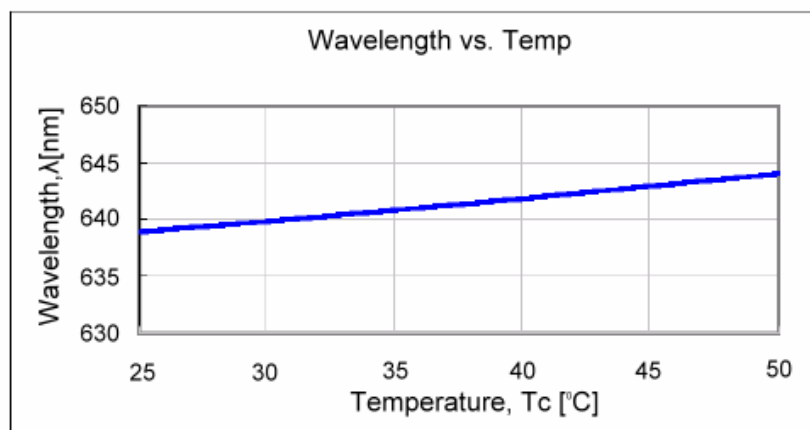
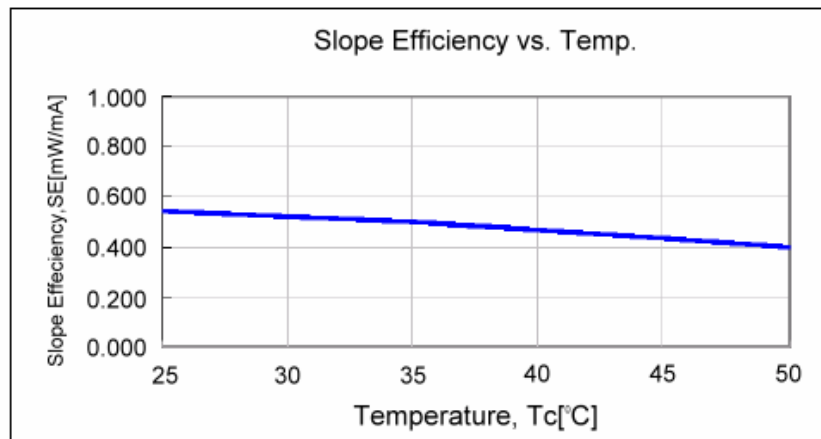
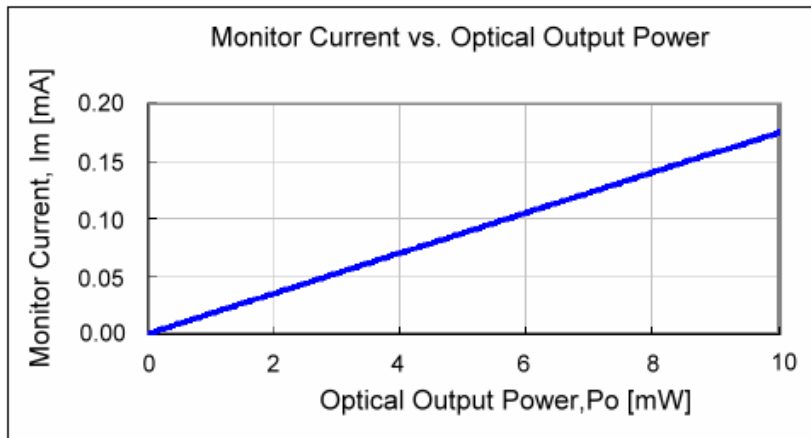
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Example of Representative Characteristics II



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