

D6-6-850-5



Application

Industrial Optical Sensor

Property

Wavelength $\lambda = 850 \text{ nm}$

Output Power = 5 mW

Package Type = $\varnothing 5.6\text{mm}$

Introduction

Egismos currently markets AlGaAs infrared laser diodes in the 780nm ~ 1550nm wavelengths range. The low operating current and high temperature of the laser diodes are achieved through using misoriented substrate and MQW (Strain compensated) active layer. Egismos laser diodes are highly rated in a broad range of applications.

Laser Diode Key Features

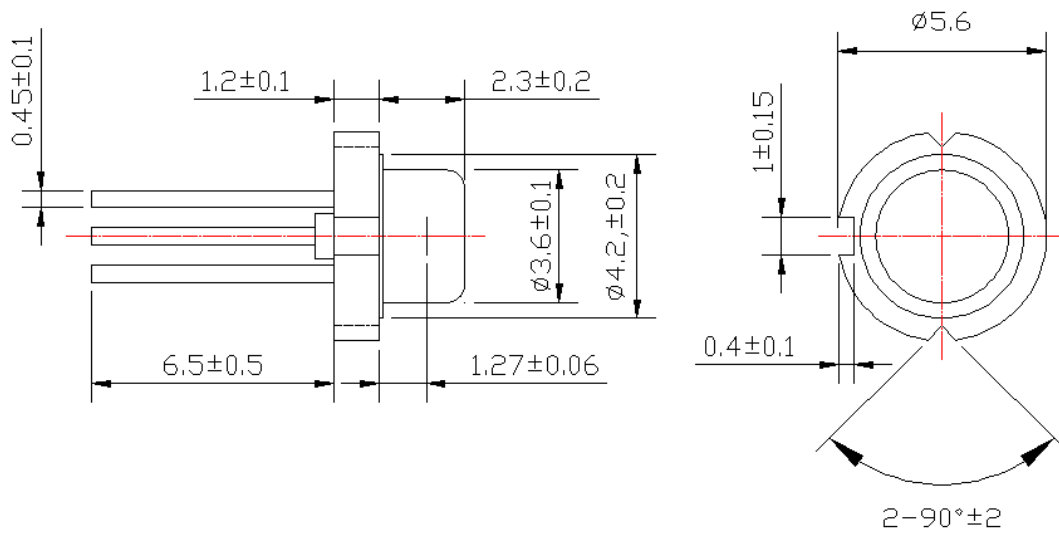
Absolute Maximum Rating at $T_c=25^\circ\text{C}$

Items	Symbols	Values	Unit
Operating Current power	P_o	5	mW
Reverse Voltage	V_R	2	V
Operating Temperature	T_{case}	-10~+60	$^\circ\text{C}$
Storage Temperature	T_s	-40~+85	$^\circ\text{C}$

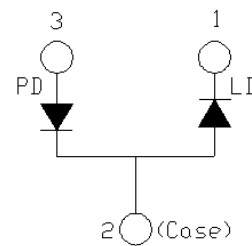
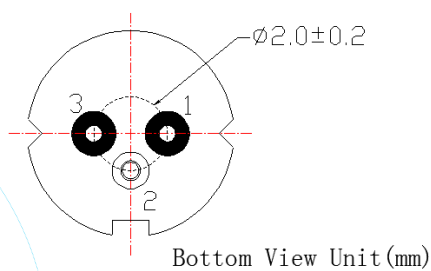
Electrical and Optical Characteristics at Tc=25°C

Item	Symbols	Min	Typ.	Max.	Unit	Condition
Threshold Current	I_{th}	5	11	20	mA	-
Operating Current	I_{op}	12	17	30	mA	Po=5mW
Operating Voltage	V_{op}	-	1.8	2.5	V	Po=5mW
Peak Wavelength	λ_p	840	852	860	nm	Po=5mW
Beam Divergence (FWHM)	θ_r	7	9	12	deg	Po=5mW
Beam Divergence (FWHM)	θ_{\pm}	25	35	40	deg	Po=5mW
Monitor Current	I_m	0.2	0.45	0.6	mA	Po=5mW

Package Drawing



Electrical Connection



Specifications are subject to change without notice.

