

## IR Laser Diode

### Application

Industrial use / Biomedical / Medical application

### Property

Wavelength  $\lambda = 808\text{nm}$

Output Power = 1000mW

Package Type =  $\varnothing 9\text{mm}$

### 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 including, but not limited to, laser pointers, green lasers, blue laser DVD, laser barcode scanners, diode laser equipments, medical instruments and aerospace applications.



### IR Laser Diode Key features

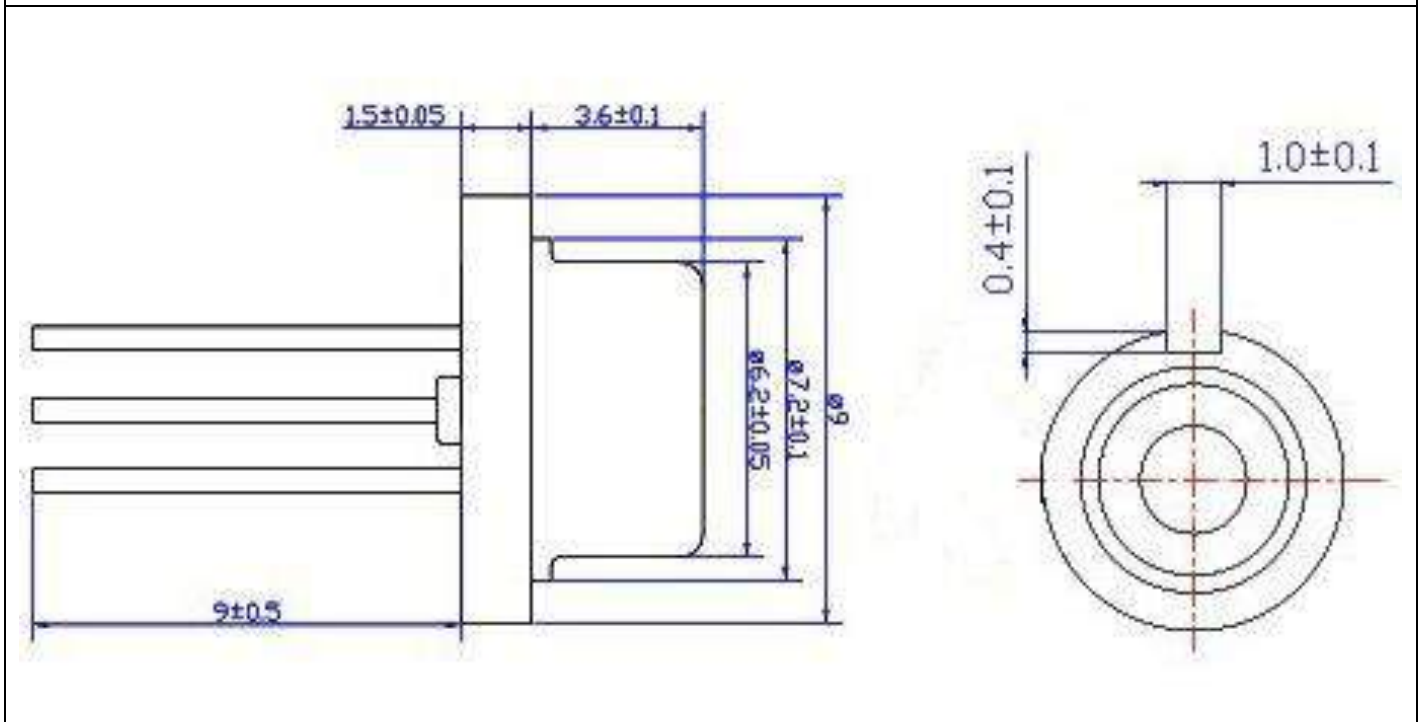
Absolute Maximum Rating at Tc=25°C			
Items	Symbols	Values	Unit
Optical Output Power	Po(CW)	1000	mW
Reverse Voltage	V	2	V
Operating Temperature	To	-10~+40	°C
Storage Temperature	Ts	-40~+70	°C

Electrical and Optical Characteristics at Tc=25°C						
Item	Symbols	Min	Typ.	Max.	Unit	Condition
Optical Output Power	Po	-	-	1000	mW	-
Threshold Current	Ith	-	250	300	mA	-
Operating Current	Iop	-	1100	1500	mA	Po=1000mW
Operating Voltage	Vop	-	2	2.5	V	Po=1000mW
Peak Wavelength	$\lambda_p$	798	808	818	nm	Po=1000mW

Beam Divergence	$\theta_{//}$	-	9	12	deg	Po=1000mW
	$\theta_{\perp}$	-	30	40	deg	Po=1000mW

Electrical Connection[Bottom View]	Package Type
<p><b>Bottom View</b></p>	

### Package Drawing



Specifications are subject to change without notice.

