

### D6-4-980-50-N



#### Application

Laser Projector  
Measuring equipment

#### Property

Wavelength  $\lambda = 980 \text{ nm}$   
Output Power = 50 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 including, but not limited to, laser pointers, green lasers, blue laser DVD, laser barcode scanners, diode laser equipment, medical instruments and aerospace applications.

### Red Laser Diode Key features

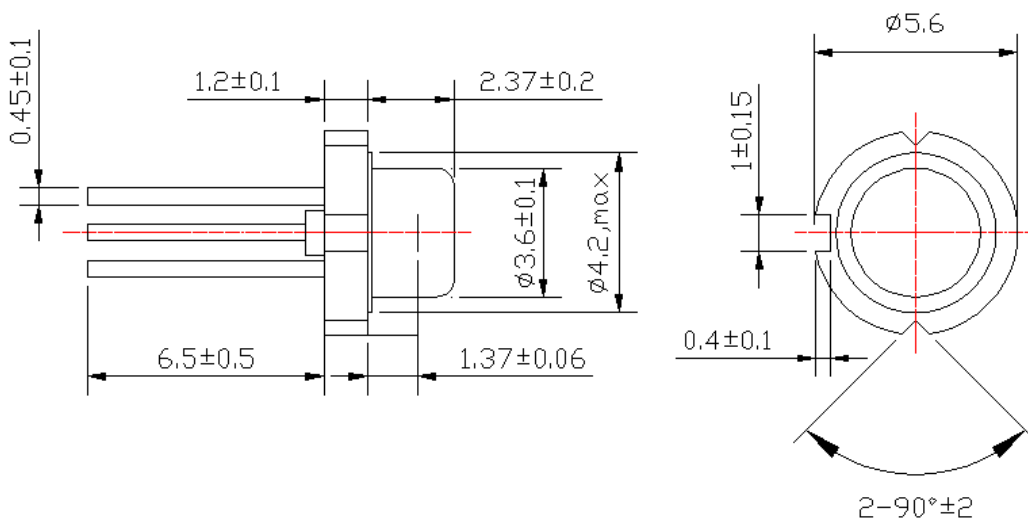
Absolute Maximum Rating at  $T_c=25^\circ\text{C}$

Items	Symbols	Values	Unit
Operating Current power	$P_o$	50	mW
Reverse Voltage	$V_R$	2	V
Operating Temperature	$T_{\text{case}}$	-10~+40	$^\circ\text{C}$
Storage Temperature	$T_s$	-40~+85	$^\circ\text{C}$

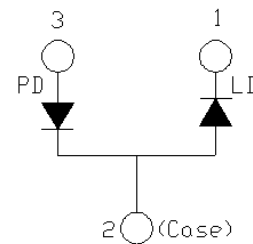
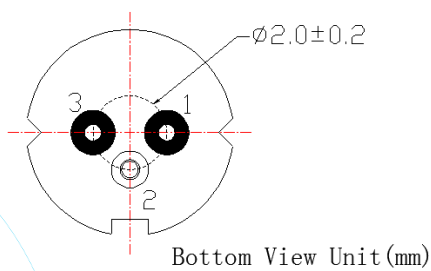
### Electrical and Optical Characteristics at Tc=25°C

Item	Symbols	Min	Typ.	Max.	Unit	Condition
Threshold Current	$I_{th}$	-	12	20	mA	-
Operating Current	$I_{op}$	-	75	85	mA	Po=50mW
Operating Voltage	$V_{op}$	-	1.55	2.0	V	Po=50mW
Peak Wavelength	$\lambda_p$	965	980	990	nm	Po=50mW
Beam Divergence (FWHM)	$\theta_r$	8	14	18	deg	Po=50mW
Beam Divergence (FWHM)	$\theta_{\pm}$	30	35	40	deg	Po=50mW
Monitor Current	$I_m$	0.1	0.25	0.4	mA	Po=50mW

### Package Drawing



### ELECTRICAL CONNECTION



Specifications are subject to change without notice.

