

### D6-7-650-7-P



#### Application

Laser Projector  
Measuring equipment

#### Property

Wavelength  $\lambda = 650 \text{ nm}$   
Output Power = 7 mW  
Package Type =  $\varnothing 5.6\text{mm}$

#### Introduction

Egismos currently markets AlGaInP based red laser diodes in the 635nm~ 670nm 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

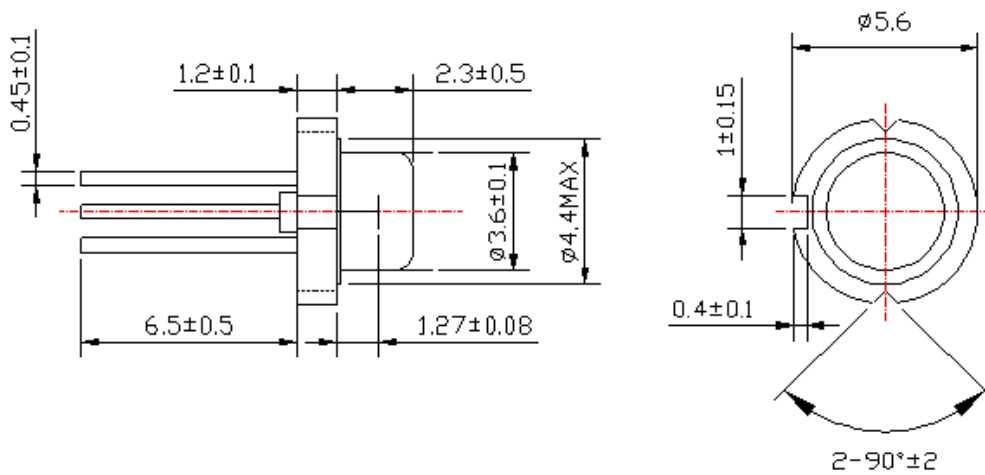
Absolute Maximum Rating at  $T_c=25^\circ\text{C}$

Items		Symbols	Values	Unit
Operating Current power		$P_o$	7	mW
Reverse Voltage	LD	$V_R$	2	V
Operating Temperature		$T_{case}$	-10~+70	$^\circ\text{C}$
Storage Temperature		$T_s$	-40~+85	$^\circ\text{C}$

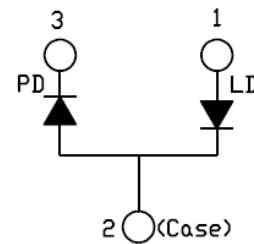
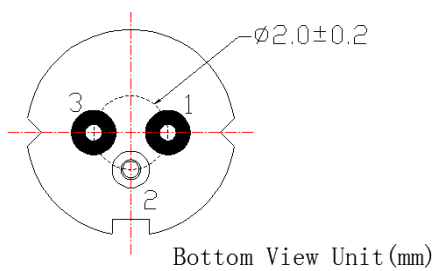
### Electrical and Optical Characteristics at Tc=25°C

Item	Symbols	Min	Typ.	Max.	Unit	Condition
Threshold Current	$I_{th}$	-	20	25	mA	-
Operating Current	$I_{op}$	-	25	30	mA	Po=7mW
Operating Voltage	$V_{op}$	-	2.2	2.5	V	Po=7mW
Peak Wavelength	$\lambda_p$	640	650	660	nm	Po=7mW
Beam Divergence (FWHM)	$\theta_r$	6	9	12	deg	Po=7mW
Beam Divergence (FWHM)	$\theta_{\pm}$	22	27	38	deg	Po=7mW
Monitor Current	$I_m$	0.1	0.2	0.4	mA	Po=7mW

### Package Drawing



### ELECTRICAL CONNECTION



Specifications are subject to change without notice.

