

D6-5-635-10



Application

Laser Projector
Measuring equipment

Property

Wavelength λ = 635 nm
Output Power = 10 mW
Package Type = \varnothing 5.6mm

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

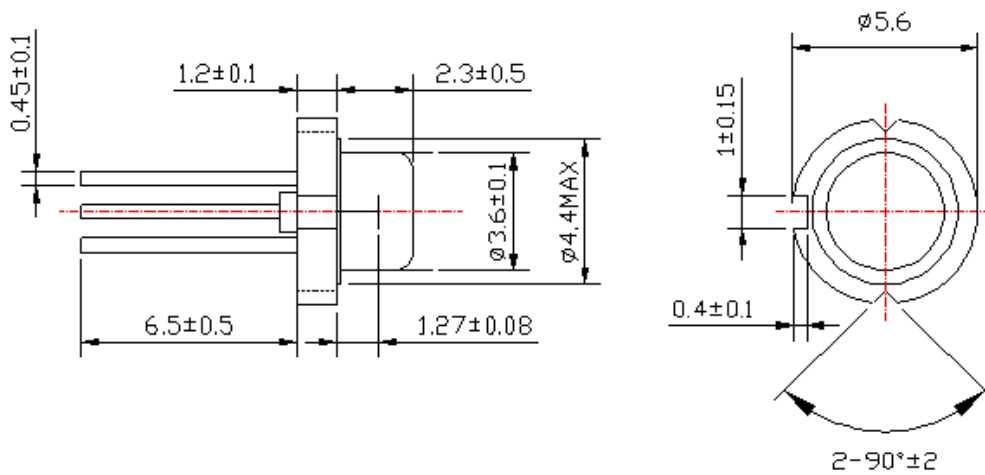
Absolute Maximum Rating at Tc=25°C

Items		Symbols	Values	Unit
Operating Current power		P _o	10	mW
Reverse Voltage	LD	V _R	2	V
Operating Temperature		T _{case}	-10~+50	°C
Storage Temperature		T _s	-40~+85	°C

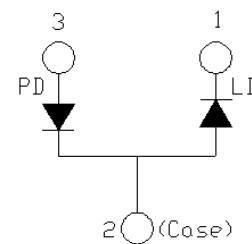
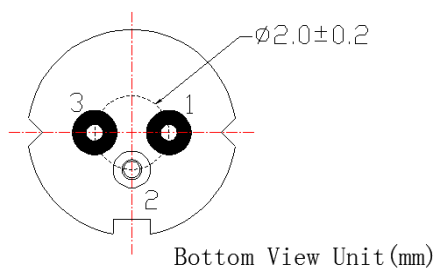
Electrical and Optical Characteristics at Tc=25°C

Item	Symbols	Min	Typ.	Max.	Unit	Condition
Threshold Current	I_{th}	-	35	40	mA	-
Operating Current	I_{op}	-	55	70	mA	Po=10mW
Operating Voltage	V_{op}	-	2.2	2.5	V	Po=10mW
Peak Wavelength	λ_p	630	635	645	nm	Po=10mW
Beam Divergence (FWHM)	θ_r	6	7.5	11	deg	Po=10mW
Beam Divergence (FWHM)	θ_{\pm}	22	33	40	deg	Po=10mW
Monitor Current	I_m	0.2	0.4	0.8	mA	Po=10mW

Package Drawing



ELECTRICAL CONNECTION



Specifications are subject to change without notice.

