

D6-6-830-200



Application

Laser Projector
Measuring equipment

Property

Wavelength λ = 830 nm
Output Power = 200 mW
Package Type = \varnothing 5.6mm

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

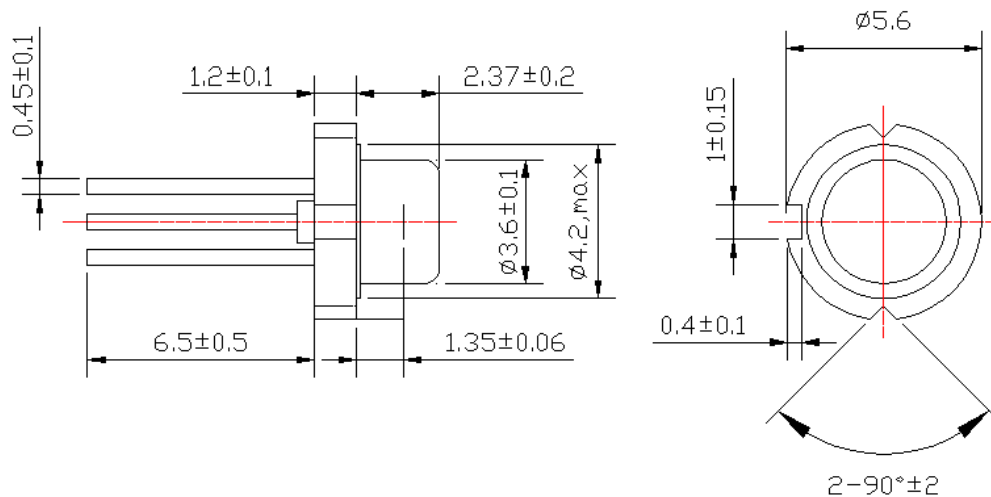
Absolute Maximum Rating at $T_c=25^{\circ}\text{C}$

Items	Symbols	Values	Unit
Operating Current power	P_o	200	mW
Reverse Voltage	V_R	2	V
Operating Temperature	T_{case}	-10~+60	$^{\circ}\text{C}$
Storage Temperature	T_s	-40~+85	$^{\circ}\text{C}$

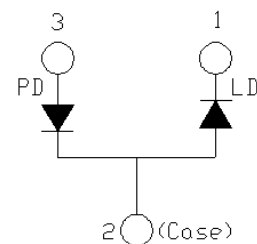
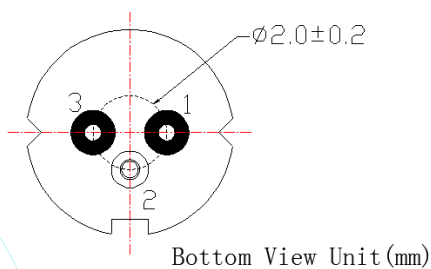
Electrical and Optical Characteristics at Tc=25°C

Item	Symbols	Min	Typ.	Max.	Unit	Condition
Threshold Current	I_{th}	-	30	40	mA	-
Operating Current	I_{op}	-	240	260	mA	Po=200mW
Operating Voltage	V_{op}	-	2.0	2.3	V	Po=200mW
Peak Wavelength	λ_p	820	830	840	nm	Po=200mW
Beam Divergence (FWHM)	θ_r	-	9	14	deg	Po=200mW
Beam Divergence (FWHM)	θ_{\perp}	-	20	25	deg	Po=200mW
Monitor Current	I_m	0.05	0.25	0.5	mA	Po=200mW

Package Drawing



ELECTRICAL CONNECTION



Specifications are subject to change without notice.

