D6-5-650-5-P

Application

Laser Projector

Measuring equipment

Property

Wavelength λ = 650 nm

Output Power = 5 mW

Package Type = φ 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℃

Items		Symbols	Values	Unit
Operating Current power		P_o	5	mW
Reverse Voltage	LD	V_R	2	V
Operating Temperature		T_{case}	-10~+50	℃
Storage Temperature		T_s	-10~+70	℃

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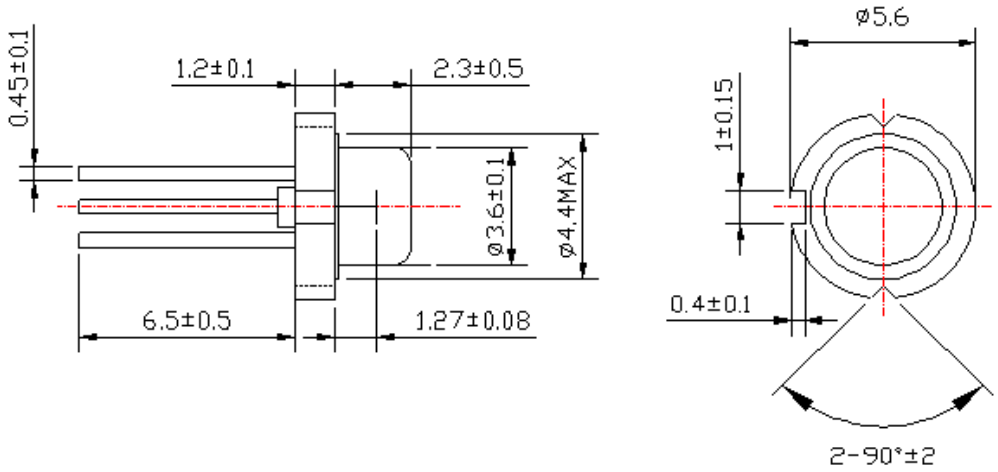
650nm RED Laser Diode

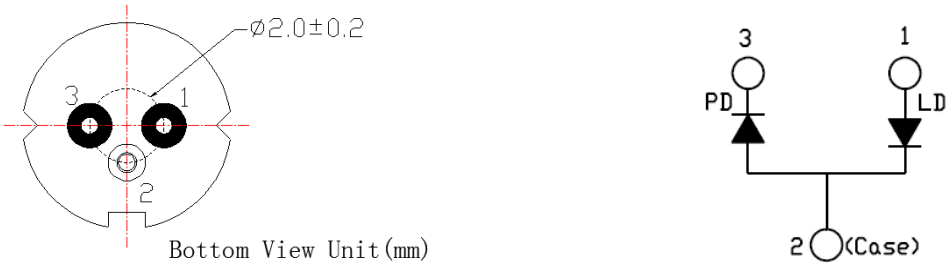
Electrical and Optical Characteristics at Tc=25℃

Item	Symbols	Min	Typ.	Max.	Unit	Condition
Threshold Current	I_{th}	-	21	30	mA	-
Operating Current	I_{op}	-	28	40	mA	Po=5mW
Operating Voltage	V_{op}	-	2.2	2.6	V	Po=5mW
Peak Wavelength	λ p	640	650	660	nm	Po=5mW
Beam Divergence (FWHM)	$\theta_{//}$	6	8	12	deg	Po=5mW
Beam Divergence (FWHM)	$\theta_{\perp}$	22	32	38	deg	Po=5mW
Monitor Current	I_m	0.1	0.2	0.5	mA	Po=5mW

Package Drawing



ELECTRICAL CONNECTION



Specifications are subject to change without notice.

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