Red Laser Diode

Application

Industrial use / Biomedical

Property

Wavelength λ = 650nm

Output Power = 30mW

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 equipments, medical instruments and aerospace applications.

Red Laser Diode Key features

Absolute Maximum Rating at Tc=25℃			
Items	**Symbols**	**Values**	**Unit**
Optical Output Power	Po(CW)	30	mW
Reverse Voltage	V	2	V
Operating Temperature	To	-10~+70	℃
Storage Temperature	Ts	-10~+70	℃

Electrical and Optical Characteristics at Tc=25℃						
Item	**Symbols**	**Min**	**Typ.**	**Max.**	**Unit**	**Condition**
Optical Output Power	Po	-	-	30	mW	-
Threshold Current	Ith	-	35	50	mA	-
Operating Current	Iop	-	65	100	mA	Po=30mW
Operating Voltage	Vop	-	2.4	3	V	Po=30mW
Peak Wavelength	λ p	640	650	660	nm	Po=30mW

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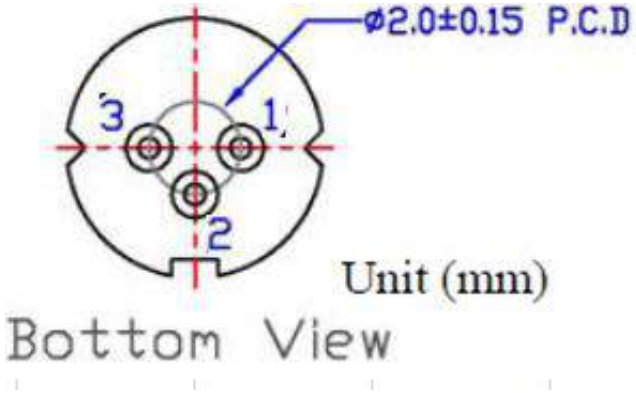
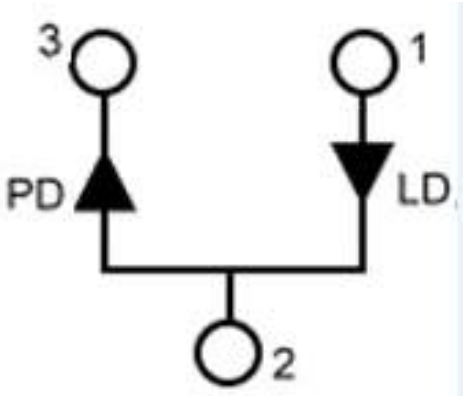
Beam Divergence	θ//	7	9.5	13	deg	Po=30mW
	θ⊥	18	22	26	deg	Po=30mW

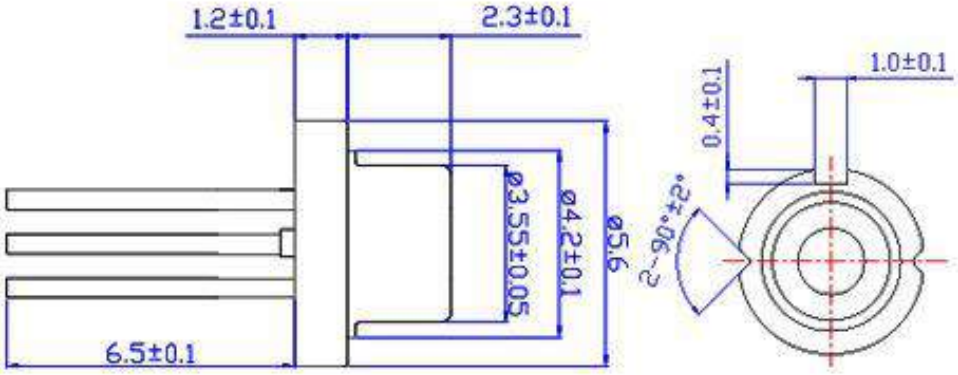
Electrical Connection(Bottom View)



Package Type



Package Drawing



Specifications are subject to change without notice.

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