

Blue Laser Diode

Application

Industrial use / Biomedical

Property

Wavelength $\lambda = 405\text{nm}$

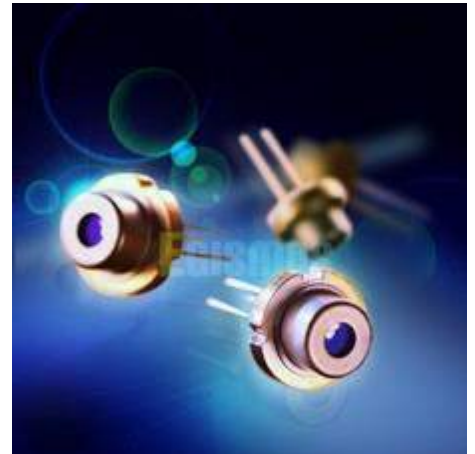
Output Power = 300mW

Package Type = $\varnothing 5.6\text{mm}$

Introduction

Egismos currently markets GaN based blue laser diodes 405nm, 450nm 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.



Blue Laser Diode Key features

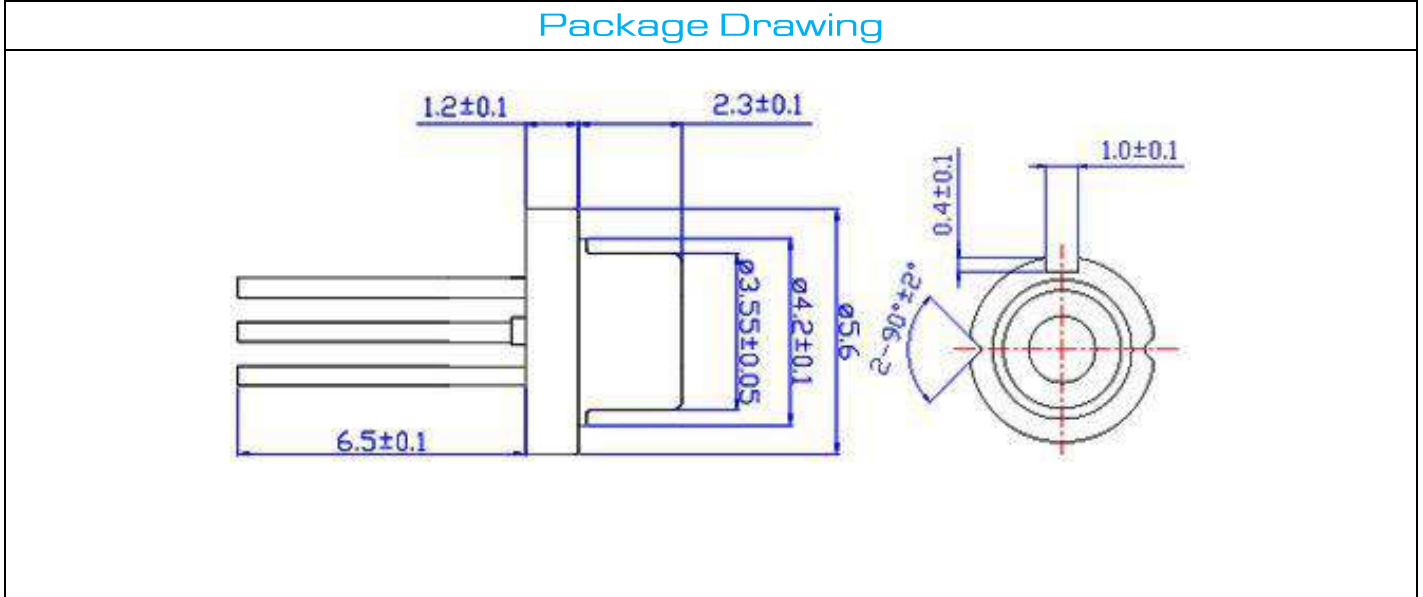
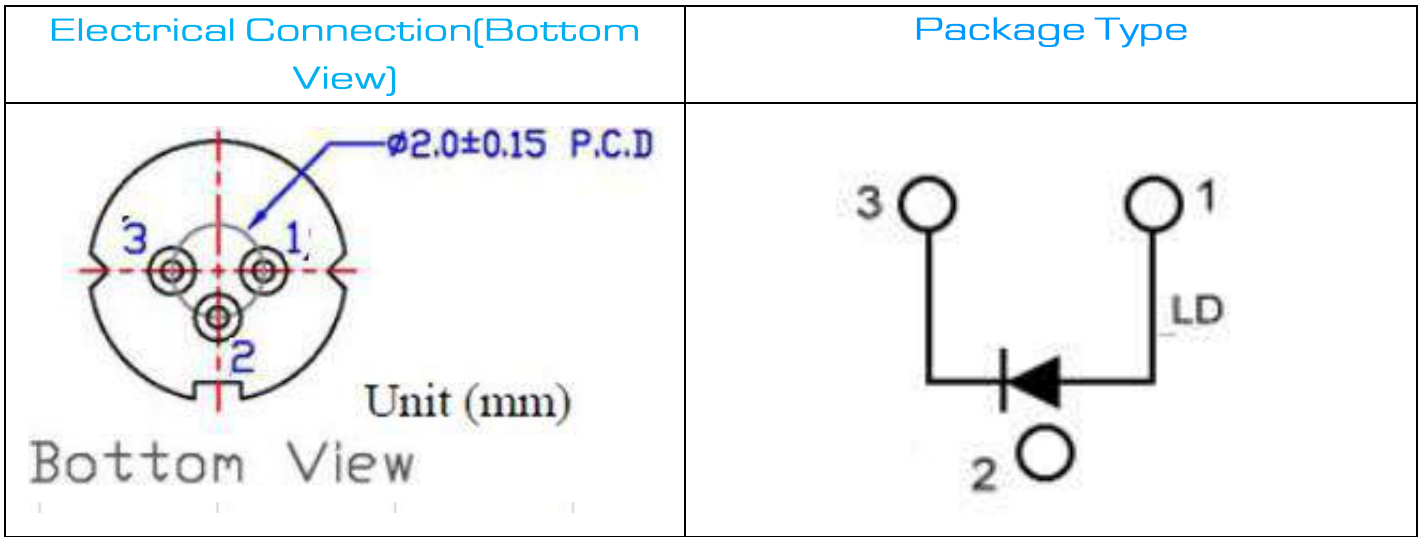
Absolute Maximum Rating at Tc=25°C

Items	Symbols	Values	Unit
Optical Output Power	Po(CW)	300	mW
Reverse Voltage	V	2	V
Operating Temperature	To	-10~+50	°C
Storage Temperature	Ts	-10~+70	°C

Electrical and Optical Characteristics at Tc=25°C

Item	Symbols	Min	Typ.	Max.	Unit	Condition
Optical Output Power	Po	-	-	300	mW	-
Threshold Current	Ith	-	140	200	mA	-
Operating Current	Iop	280	350	430	mA	Po=300mW
Operating Voltage	Vop	-	4.6	5.5	V	Po=300mW
Peak Wavelength	λ_p	395	405	415	nm	Po=300mW

Beam Divergence	$\theta_{//}$	8	14	20	deg	Po=300mW
	θ_{\perp}	37	40	44	deg	Po=300mW



Specifications are subject to change without notice.

