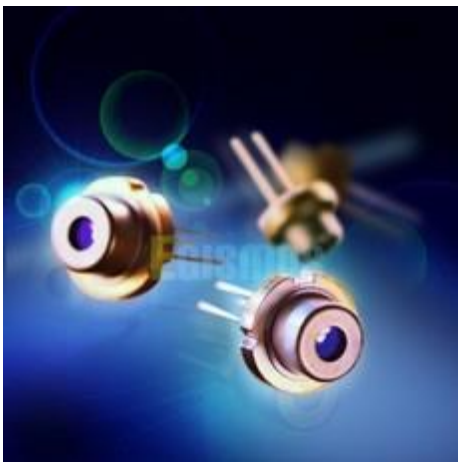
D6-7-450-100



Application

Industrial use

Biomedical

Property

Wavelength λ = 450 nm

Output Power = 100 mW

Package Type = φ 5.6mm

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.

Laser Diode Key features

Absolute Maximum Rating at Tc=25℃

Items	Symbols	Values	Unit
Operating Current power	P_o	100	mW
Reverse Voltage	V_R	2	V
Operating Temperature	T_{case}	-40~+70	℃
Storage Temperature	T_s	-40~+85	℃

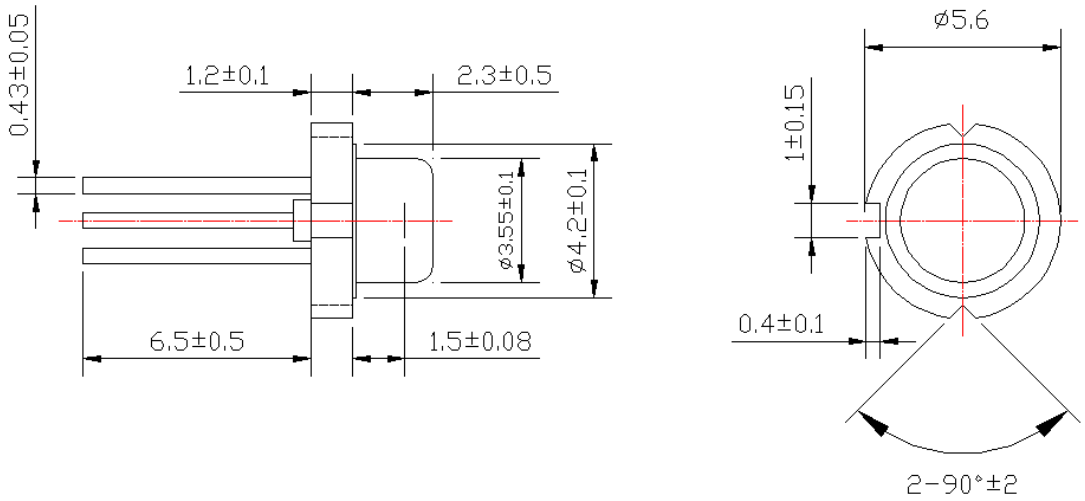
EGISMOS
www.egismos.com
tel:+1-360-3893347
sales@egismos.com

450nm BLUE Laser Diode

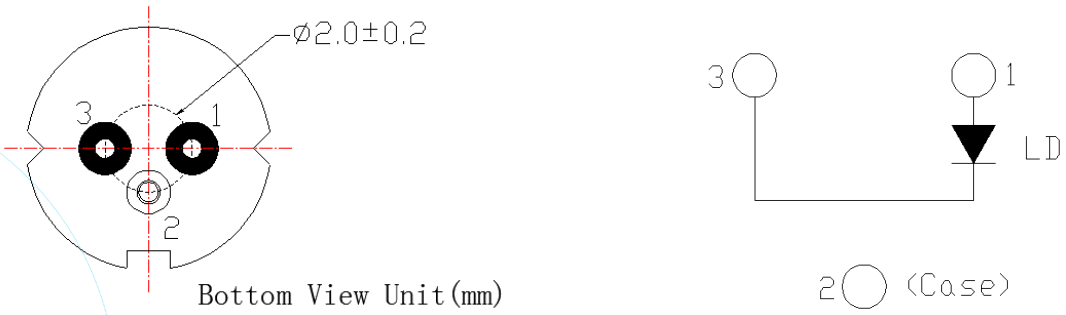
Electrical and Optical Characteristics at Tc=25℃

Item	Symbols	Min	Typ.	Max.	Unit	Condition
Threshold Current	I_{th}	-	20	60	mA	-
Operating Current	I_{op}	-	100	165	mA	Po=100mW
Operating Voltage	V_{op}	-	5.5	7.0	V	Po=100mW
Peak Wavelength	λ p	440	450	460	nm	Po=100mW
Beam Divergence (FWHM)	$\theta_{//}$	4	6.5	8	deg	Po=100mW
Beam Divergence (FWHM)	$\theta_{\perp}$	18	22	25	deg	Po=100mW

Package Drawing



Electrical connection



Specifications are subject to change without notice.

EGISMOS
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tel:+1-360-3893347
sales@egismos.com