520nm GREEN Laser Diode

D6-6-520-50

Application

Industrial use

Biomedical

Property

Wavelength λ = 520 nm

Output Power = 50 mW

Package Type = φ 5.6mm

Introduction

Egismos currently markets InGaN-based green laser diodes 515-520nm 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
Operating Current power	P_o	50	mW
Reverse Voltage	V_R	2	V
Operating Temperature	T_{case}	-10~+60	℃
Storage Temperature	T_s	-40~+85	℃

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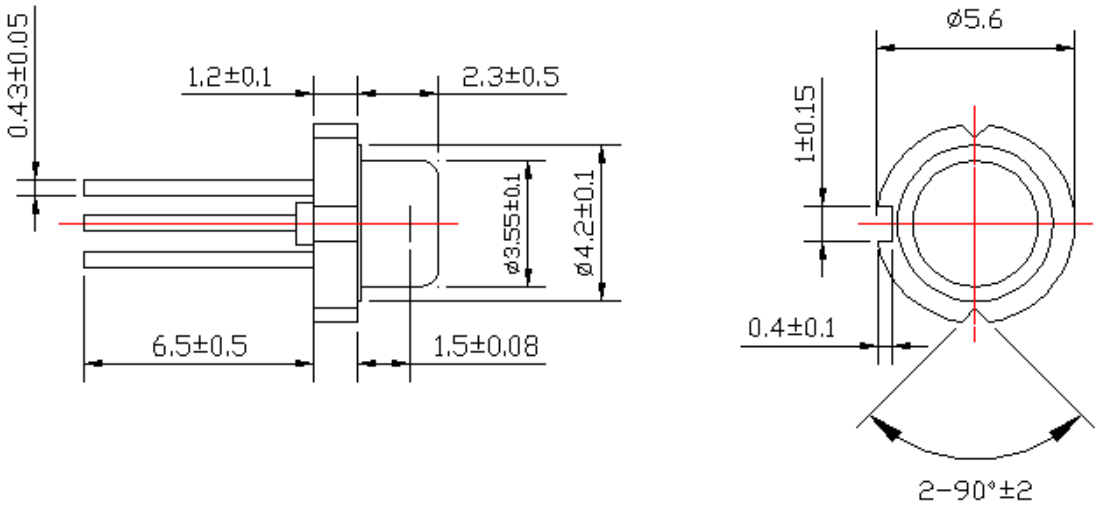
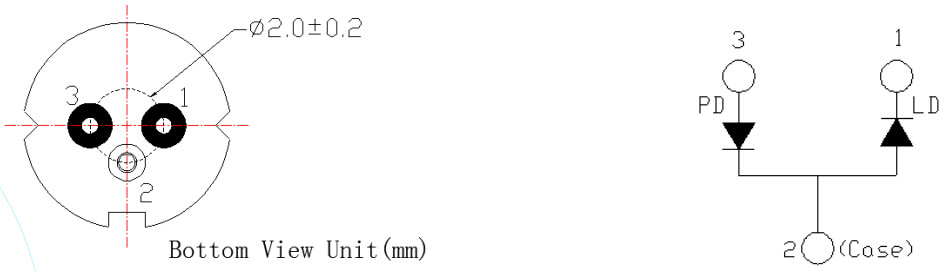
Electrical and Optical Characteristics at Tc=25℃

Item	Symbols	Min	Typ.	Max.	Unit	Condition
Threshold Current	I_{th}	-	45	75	mA	-
Operating Current	I_{op}	-	150	160	mA	Po=50mW
Operating Voltage	V_{op}	-	7.0	8.0	V	Po=50mW
Peak Wavelength	λ p	510	520	530	nm	Po=50mW
Beam Divergence (FWHM)	$\theta_{//}$	4	7	11	deg	Po=50mW
Beam Divergence (FWHM)	$\theta_{\perp}$	16	22	25	deg	Po=50mW

Package Drawing



ELECTRICAL CONNECTION



Specifications are subject to change without notice.

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