

D6-6-520-80



Application

Industrial use
Biomedical

Property

Wavelength $\lambda = 520 \text{ nm}$
Output Power = 80 mW
Package Type = $\varnothing 5.6\text{mm}$

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.

Laser Diode Key features

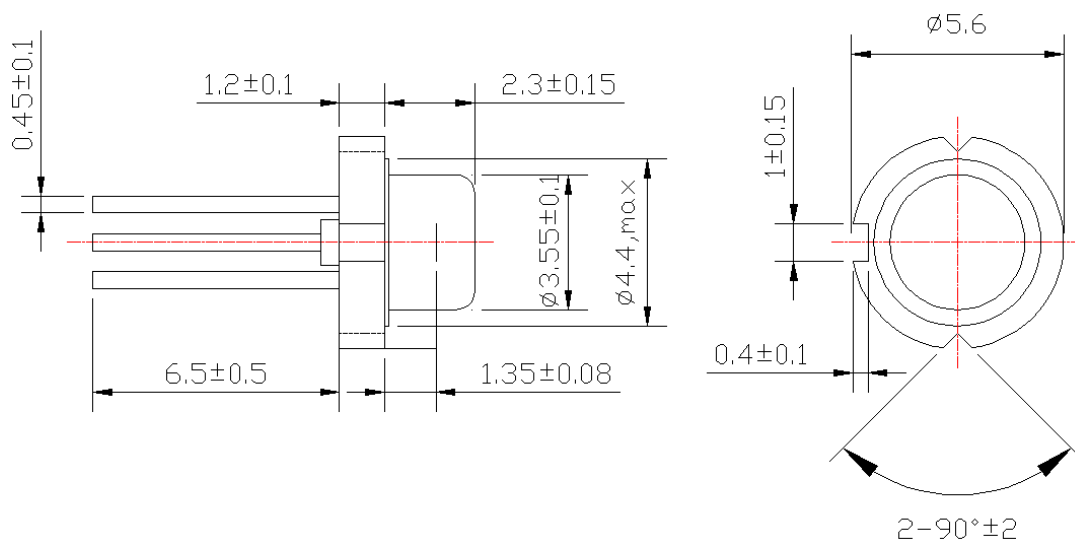
Absolute Maximum Rating at $T_c=25^\circ\text{C}$

Items	Symbols	Values	Unit
Operating Current power	P_o	80	mW
Reverse Voltage	V_R	2	V
Operating Temperature	T_{case}	-10~+60	$^\circ\text{C}$
Storage Temperature	T_s	-40~+85	$^\circ\text{C}$

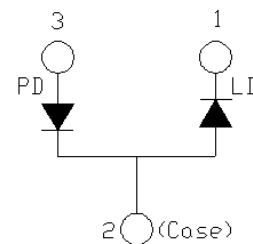
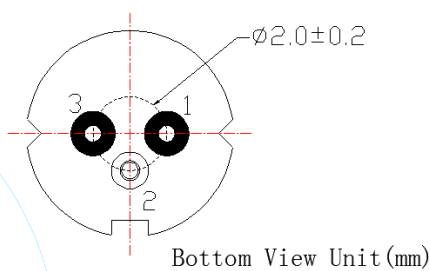
Electrical and Optical Characteristics at Tc=25°C

Item	Symbols	Min	Typ.	Max.	Unit	Condition
Threshold Current	I_{th}	-	60	90	mA	-
Operating Current	I_{op}	-	170	240	mA	$P_o=80mW$
Operating Voltage	V_{op}	-	6.6	8.0	V	$P_o=80mW$
Peak Wavelength	λ_p	510	520	530	nm	$P_o=80mW$
Beam Divergence (FWHM)	θ_r	5	7	9	deg	$P_o=80mW$
Beam Divergence (FWHM)	θ_{\pm}	20	23	25	deg	$P_o=80mW$
Monitor current	I_m	0.15	0.5	1.0	mA	$P_o=80mW, V_{rd}=5$

Package Drawing



Electrical Connection



Specifications are subject to change without notice.

