

D6-6-520-110



Application

Industrial use
Biomedical

Property

Wavelength $\lambda = 520 \text{ nm}$
Output Power = 110 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

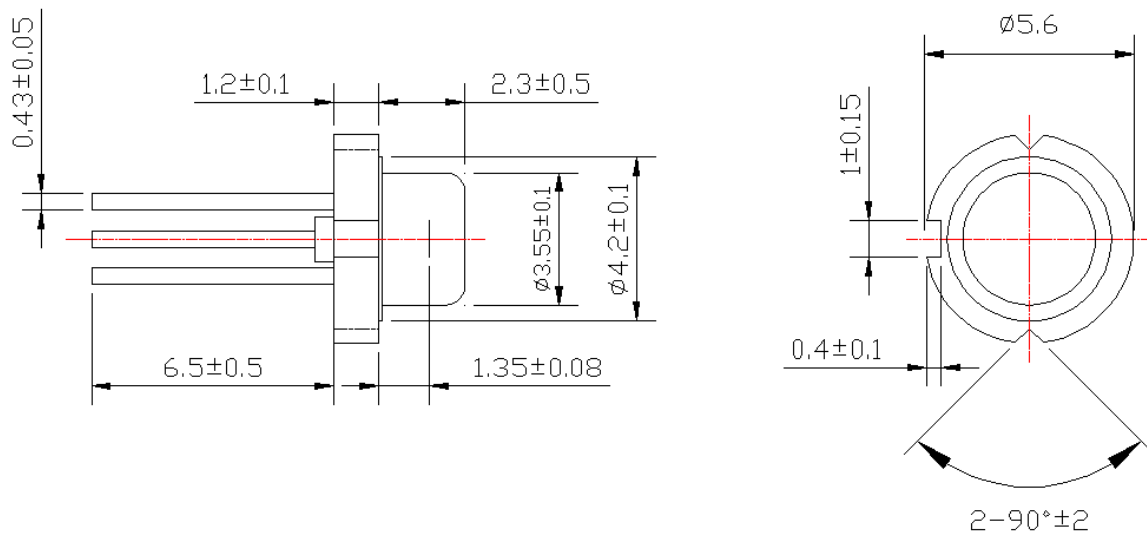
Absolute Maximum Rating at $T_c=25^\circ\text{C}$

| Items | Symbols | Values | Unit |
|-------------------------|------------|---------|------------------|
| Operating Current power | P_o | 110 | mW |
| Reverse Voltage | V_R | 2 | V |
| Operating Temperature | T_{case} | -20~+60 | $^\circ\text{C}$ |
| Storage Temperature | T_s | -40~+85 | $^\circ\text{C}$ |

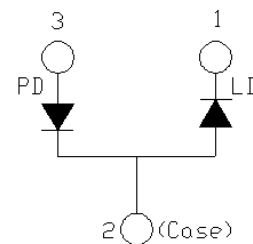
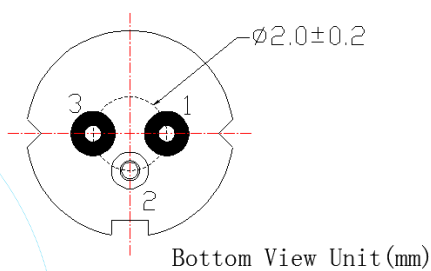
Electrical and Optical Characteristics at Tc=25°C

| Item | Symbols | Min | Typ. | Max. | Unit | Condition |
|------------------------|----------------|-----|------|------|------|-----------------------|
| Threshold Current | I_{th} | - | 50 | 90 | mA | - |
| Operating Current | I_{op} | - | 230 | 300 | mA | $P_o=110mW$ |
| Operating Voltage | V_{op} | - | 6.1 | 8.0 | V | $P_o=110mW$ |
| Peak Wavelength | λ_p | 510 | 520 | 530 | nm | $P_o=110mW$ |
| Beam Divergence (FWHM) | θ_f | 5.5 | 7.0 | 8.5 | deg | $P_o=110mW$ |
| Beam Divergence (FWHM) | θ_{\pm} | 18 | 23 | 25 | deg | $P_o=110mW$ |
| Monitor current | I_m | - | 0.2 | - | mA | $P_o=110mW, V_{rd}=5$ |

Package Drawing



Electrical Connection



Specifications are subject to change without notice.

