

HL6555G

Visible High Power Laser Diode for Measurement

ODE-208-056B (Z)

Rev.2

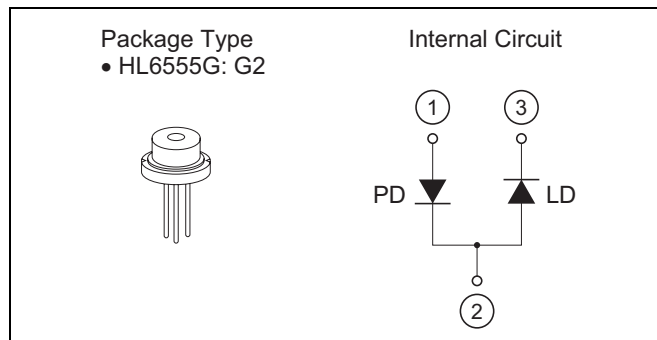
Oct. 12, 2006

Description

The HL6555G is a 0.65 μm band AlGaInP laser diode (LD) with a multi-quantum well (MQW) structure. It is suitable as a light source for various types of optical equipment.

Features

- Operating temperature: 60°C Max
- High Power: 60 mW CW
- Visible light output: $\lambda_p = 664 \text{ nm} \pm 2 \text{ nm}$
- Low Operating current:
 $I_{op} = 120 \text{ mA Typ (} P_o = 60 \text{ mW)}$



Absolute Maximum Ratings

($T_C = 25^\circ\text{C}$)

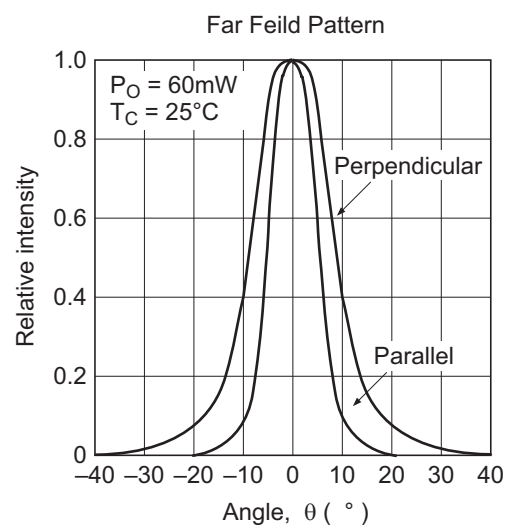
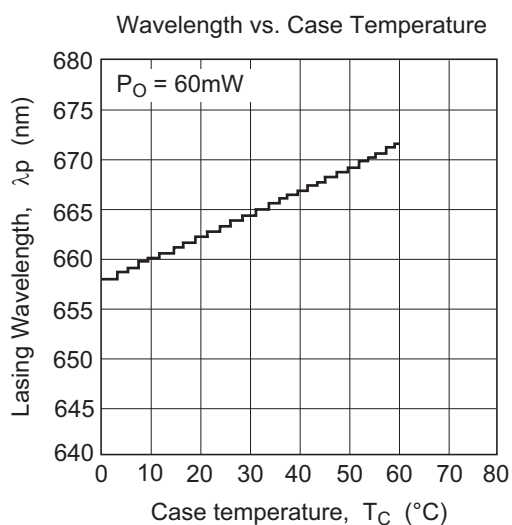
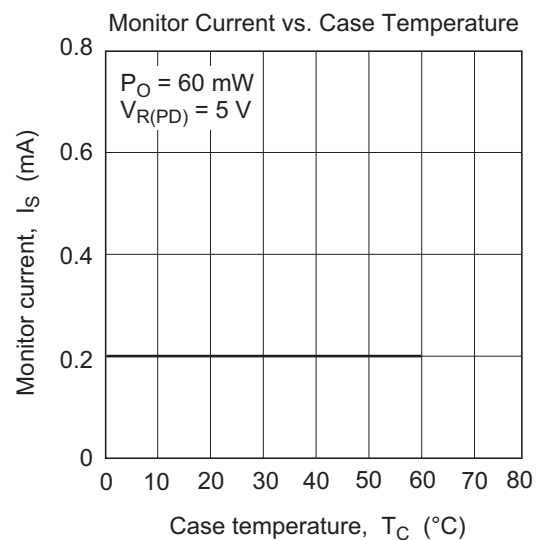
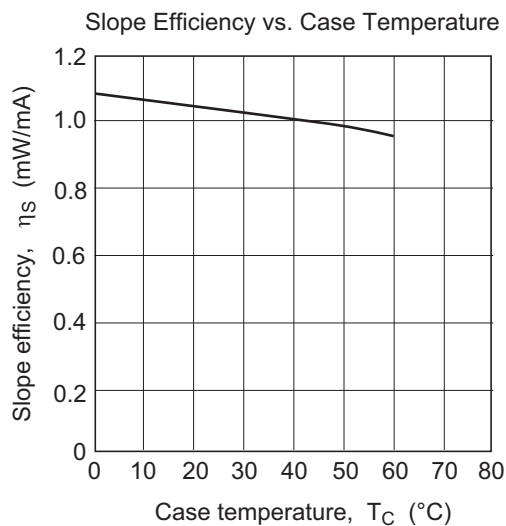
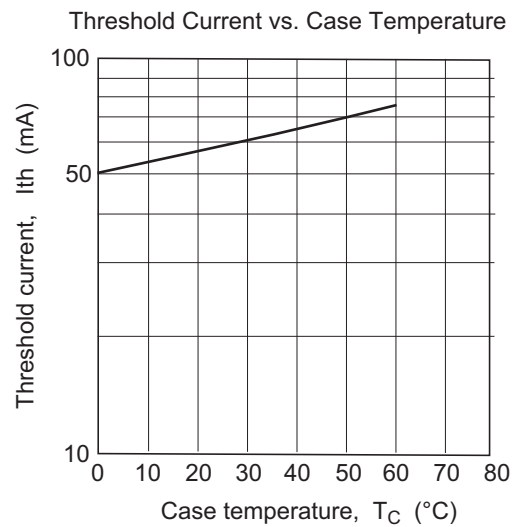
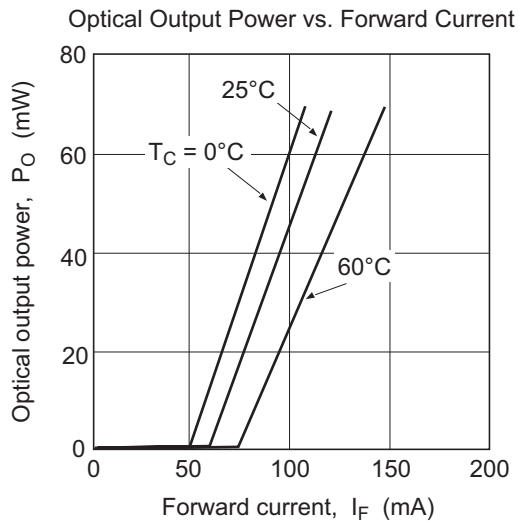
Item	Symbol	Ratings	Unit
Optical output power	P_O	70	mW
LD reverse voltage	$V_{R(LD)}$	2	V
CW operating temperature	T_{opr}	-10 to +60	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +85	$^\circ\text{C}$

Optical and Electrical Characteristics

($T_C = 25^\circ\text{C}$)

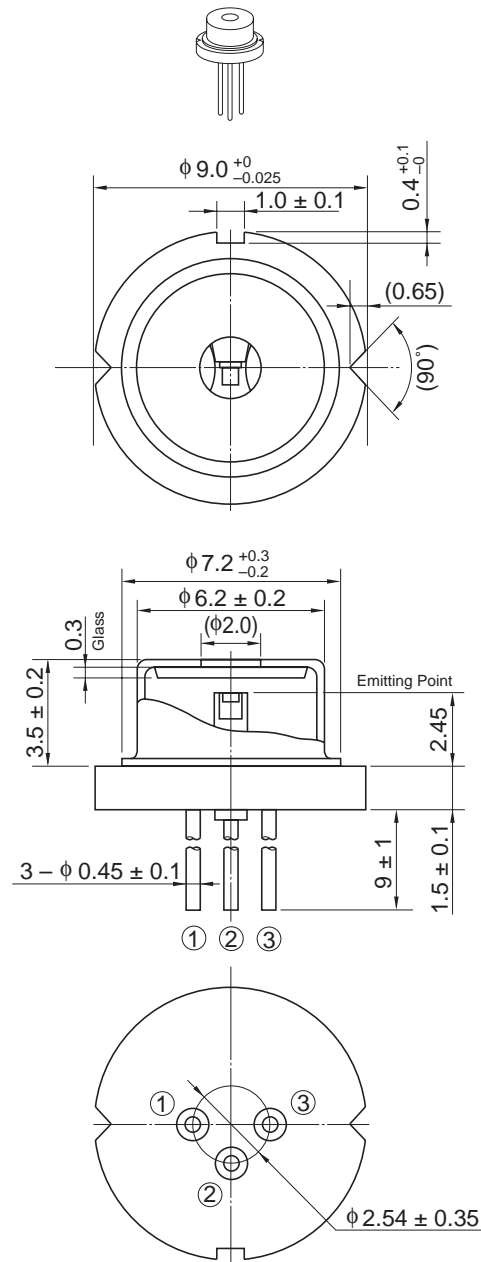
Item	Symbol	Min	Typ	Max	Unit	Test Conditions
Threshold current	I_{th}	—	60	75	mA	
Operating current	I_{OP}	—	120	140	mA	$P_O = 60 \text{ mW}$
Operating voltage	V_{OP}	—	2.45	3.0	V	$P_O = 60 \text{ mW}$
Lasing wavelength	λ_p	662	664	666	nm	$P_O = 60 \text{ mW}$
Beam divergence parallel to the junction	$\theta_{//}$	6.0	10.0	13.0	$^\circ$	$P_O = 60 \text{ mW}$
Beam divergence perpendicular to the junction	θ_{\perp}	14	17	20	$^\circ$	$P_O = 60 \text{ mW}$
Monitor current	I_s	0.2	0.4	0.9	mA	$P_O = 60 \text{ mW}, V_{R(PD)} = 5 \text{ V}$

Typical Characteristic Curves



Package Dimensions

As of July, 2002
Unit: mm



OPJ Code	LD/G2
JEDEC	—
JEITA	—
Mass (reference value)	1.1 g

Cautions

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1. The laser light is harmful to human body especially to eye no matter what directly or indirectly. The laser beam shall be observed or adjusted through infrared camera or equivalent.
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When disposing of the product, please follow the laws of your country and separate it from other waste such as industrial waste and household garbage.
3. Definition of items shown in this CAS is in accordance with that shown in Opto Device Databook issued by OPJ unless otherwise specified.

Sales Offices



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