

HL6325G/26G

AlGaInP Laser Diodes

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Description

The HL6325G/26G are $0.63~\mu m$ band AlGaInP laser diodes with a multi-quantum well (MQW) structure. They are suitable as light sources for laser levelers, laser scanners and optical equipment for measurement.

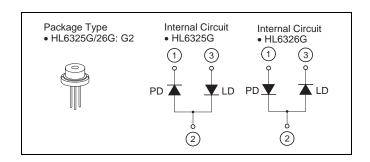
Features

• Visible light output: 635 nm Typ

Single longitudinal mode

Optical output power: 5 mW CW
 Low operating current: 40 mA Typ
 Low operating voltage: 2.4 V Max
 Operating temperature: +60°C

• TM mode oscillation



Absolute Maximum Ratings

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

Item	Symbol	Ratings	Unit
Optical output power	Po	5	mW
Pulse optical output power	P _{O(pulse)}	2	mW
PD reverse voltage	$V_{R(PD)}$	30	V
Operating temperature	Topr	-10 to +60	°C
Storage temperature	Tstg	-40 to +85	°C

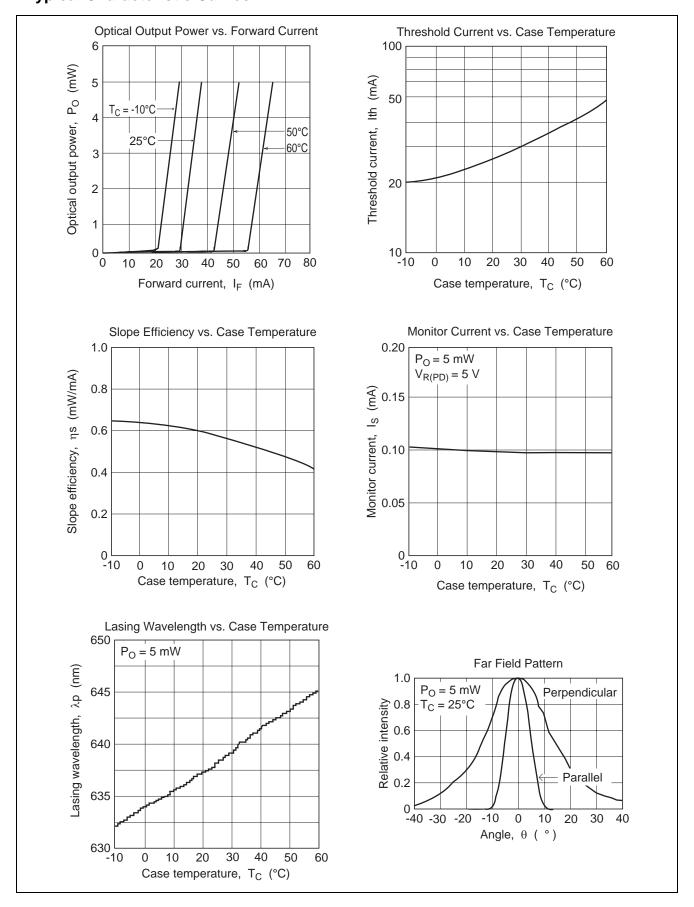
Optical and Electrical Characteristics

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

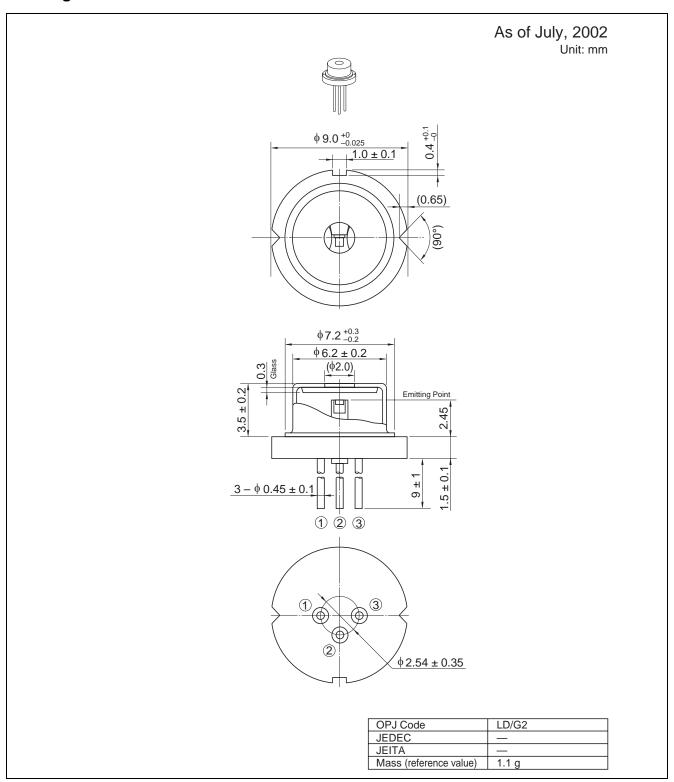
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	Ith	_	30	50	mA	_
Operating current	I _{OP}	_	40	60	mA	$P_O = 5 \text{ mW}$
Operating voltage	V _{OP}	_	2.2	2.4	V	$P_O = 5 \text{ mW}$
Slope efficiency	ηѕ	0.3	0.5	0.8	mW/mA	3 (mW) / (I _(4mW) – I _(1mW))
Beam divergence parallel to the junction	θ//	6	8	11	0	P _O = 5 mW
Beam divergence perpendicular to the junction	θΤ	25	31	37	0	P _O = 5 mW
Lasing wavelength	λр	630	635	640	nm	$P_O = 5 \text{ mW}$
Monitor current	I _S	0.05	0.10	0.25	mA	$P_0 = 5 \text{ mW}, V_{R(PD)} = 5 \text{ V}$



Typical Characteristic Curves



Package Dimensions



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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.
- 2. This product contains gallium arsenide (GaAs), which may seriously endanger your health even at very low doses. Please avoid treatment which may create GaAs powder or gas, such as disassembly or performing chemical experiments, when you handle the product.
 - 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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