

# HL6325G/26G

# AlGaInP Laser Diodes

ODE-208-030 (Z) Rev.0 Jul. 01, 2005

## **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.

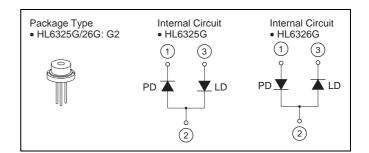
#### **Features**

• 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 <sub>O(pulse)</sub>	2	mW
PD reverse voltage	V <sub>R(PD)</sub>	30	V
Operating temperature	Topr	-10 to +60	°C
Storage temperature	Tstg	-40 to +85	°C

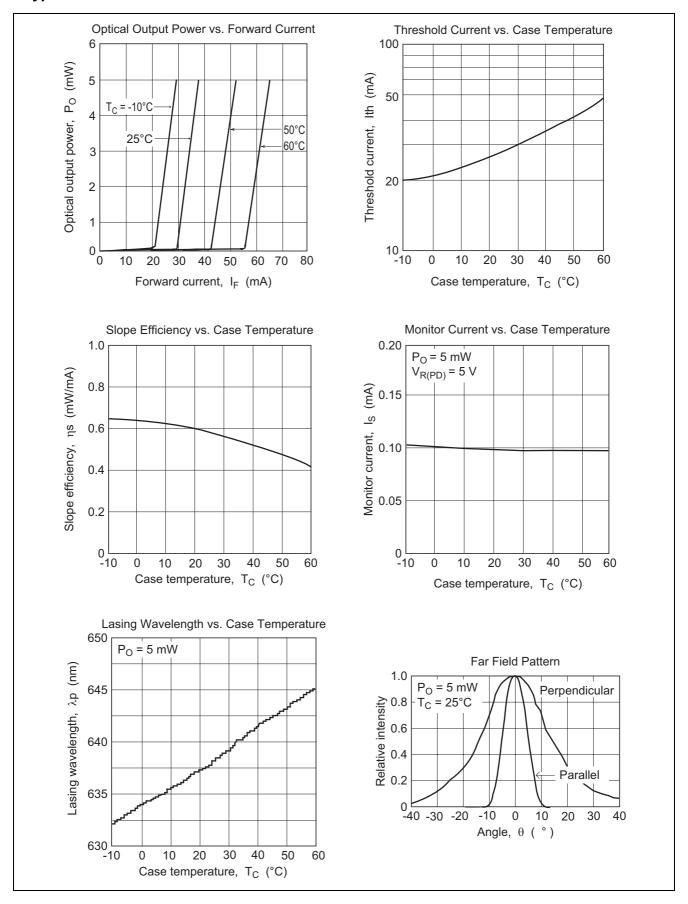
### **Optical and Electrical Characteristics**

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

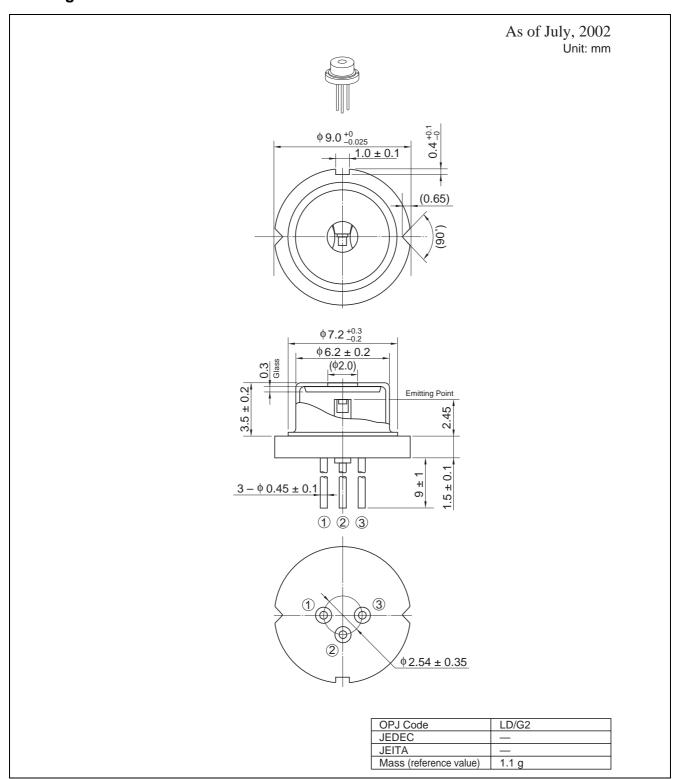
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	Ith	_	30	50	mA	_
Operating current	I <sub>OP</sub>	_	40	60	mA	$P_0 = 5 \text{ mW}$
Operating voltage	V <sub>OP</sub>	_	2.2	2.4	V	$P_0 = 5 \text{ mW}$
Slope efficiency	ηѕ	0.3	0.5	0.8	mW/mA	$3 \text{ (mW)} / (I_{(4\text{mW})} - I_{(1\text{mW})})$
Beam divergence parallel to the junction	θ//	6	8	11	o	P <sub>O</sub> = 5 mW
Beam divergence perpendicular to the junction	θΤ	25	31	37	0	P <sub>0</sub> = 5 mW
Lasing wavelength	λр	630	635	640	nm	$P_0 = 5 \text{ mW}$
Monitor current	Is	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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- 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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