

HL6316G AlGaInP Laser Diodes

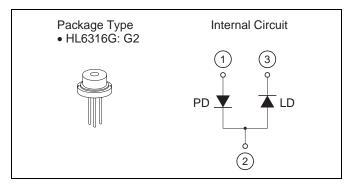
ODE2010-00 (M) Rev.0 Aug. 01, 2008

Description

The HL6316G is a 0.63 μ m band AlGaInP laser diodes with a multi-quantum well (MQW) structure. It is suitable as light sources for laser pointers and optical equipment.

Features

- Visible light output: 635 nm Typ
- Single longitudinal mode
- Optical output power: 3 mW CW
- Low operating current: 30 mA Typ
- Low operating voltage: 2.7 V Max
- TM mode oscillation



Absolute Maximum Ratings

			$(T_{\rm C} = 25^{\circ}{\rm C})$	
ltem	Symbol	Ratings	Unit	
Optical output power	Po	3	mW	
Pulse optical output power	P _{O(pulse)}	5 *	mW	
LD reverse voltage	V _{R(LD)}	2	V	
PD reverse voltage	V _{R(PD)}	30	V	
Operating temperature	Topr	-10 to +50	°C	
Storage temperature	Tstg	-40 to +85	°C	

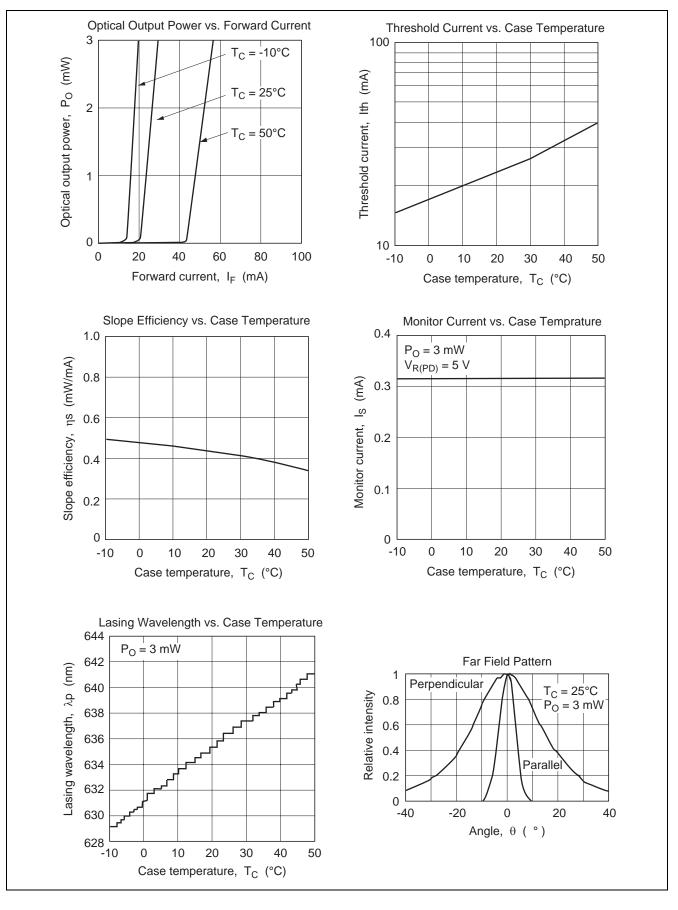
Note: Pulse condition : Pulse width $\leq 1 \ \mu s$, duty $\leq 50\%$

Optical and Electrical Characteristics

						$(T_{\rm C}=25^{\circ}{\rm C})$
Item	Symbol	Min	Тур	Max	Unit	Test Conditions
Threshold current	lth	—	25	35	mA	—
Operating current	I _{OP}	—	30	42	mA	$P_0 = 3 \text{ mW}$
Operating voltage	V _{OP}	—	—	2.7	V	$P_0 = 3 \text{ mW}$
Beam divergence parallel to the junction	θ//	6	8	10	0	$P_0 = 3 \text{ mW}$
Beam divergence perpendicular to the junction	θ⊥	23	30	39	0	$P_0 = 3 \text{ mW}$
Lasing wavelength	λρ	630	635	640	nm	$P_0 = 3 \text{ mW}$
Monitor current	Is	0.1	0.3	0.6	mA	$P_O = 3 \text{ mW}, V_{R(PD)} = 5 \text{ V}$

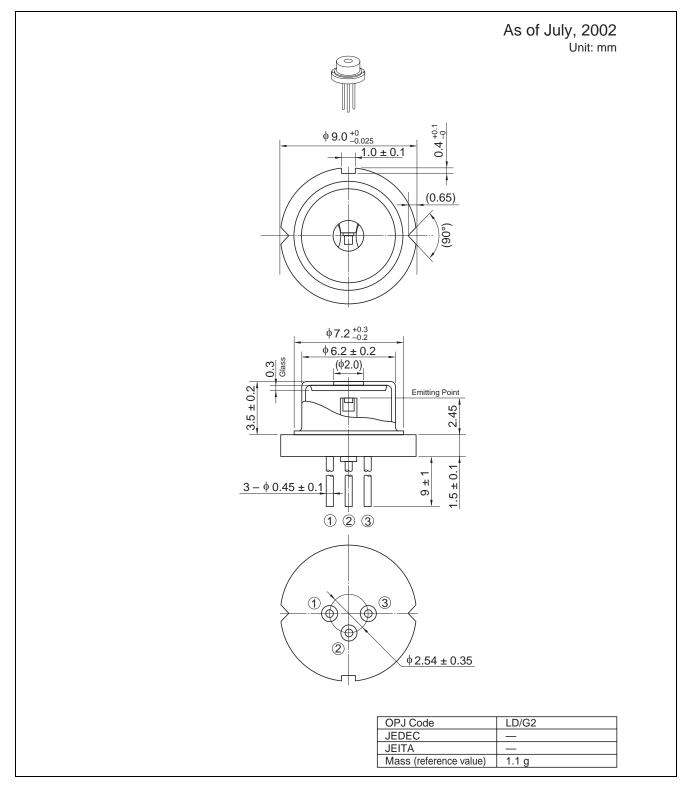


Typical Characteristic Curves





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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