

HL6364DG/65DG

Low Operating Current Visible Laser Diode

ODE2027-00 (M) Rev.0 Aug. 01, 2008

Description

The HL6364DG/65DG are 0.63 μ 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: 642 nm Typ
- Single longitudinal mode
- Optical output power: 60 mW CW
- Low operating current: 125 mA Typ
- Low operating voltage: 2.7 V Max
- Operating temperature: +50°C
- TE mode oscillation

Absolute Maximum Ratings

			$(T_{C} = 25^{\circ}C)$	
ltem	Symbol	Ratings	Unit	
Optical output power	Po	65	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	

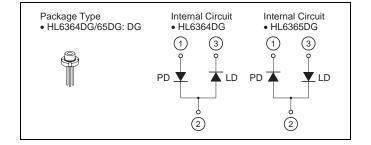
Optical and Electrical Characteristics

 $(T_{\rm C} = 25^{\circ}{\rm C})$

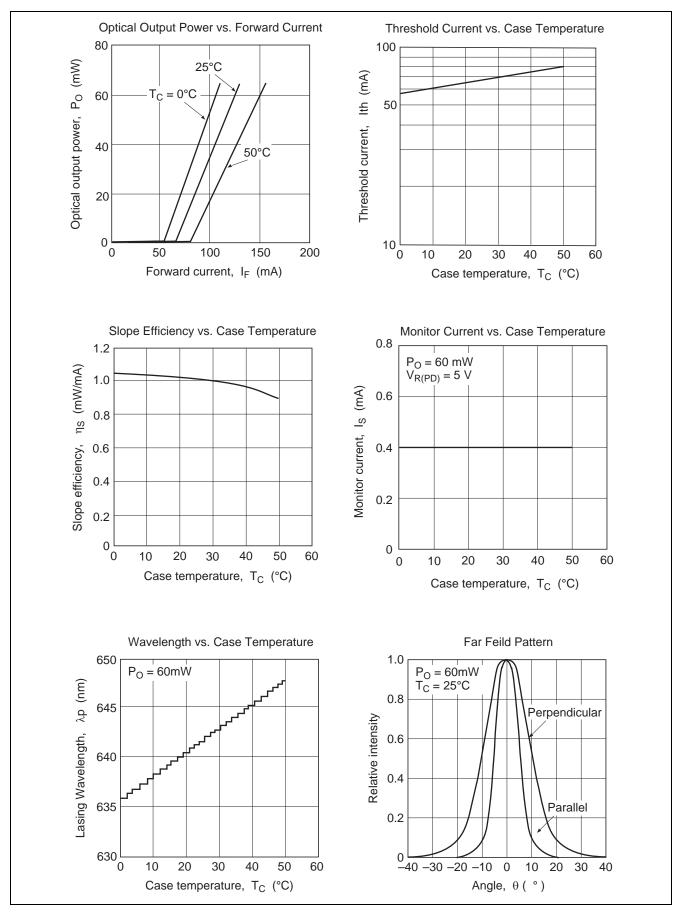
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	lth	—	65	80	mA	—
Operating current	I _{OP}	—	125	155	mA	$P_0 = 60 \text{ mW}$
Operating voltage	V _{OP}	—	2.5	2.7	V	$P_0 = 60 \text{ mW}$
Beam divergence parallel to the junction	θ//	7	10	13	o	P _O = 60 mW
Beam divergence perpendicular to the junction	θ⊥	16	21	24	o	P _O = 60 mW
Lasing wavelength	λρ	635	642	645	nm	$P_0 = 60 \text{ mW}$
Monitor current	Is	0.2	0.4	0.8	mA	$P_{O} = 60 \text{ mW}, V_{R(PD)} = 5 \text{ V}$



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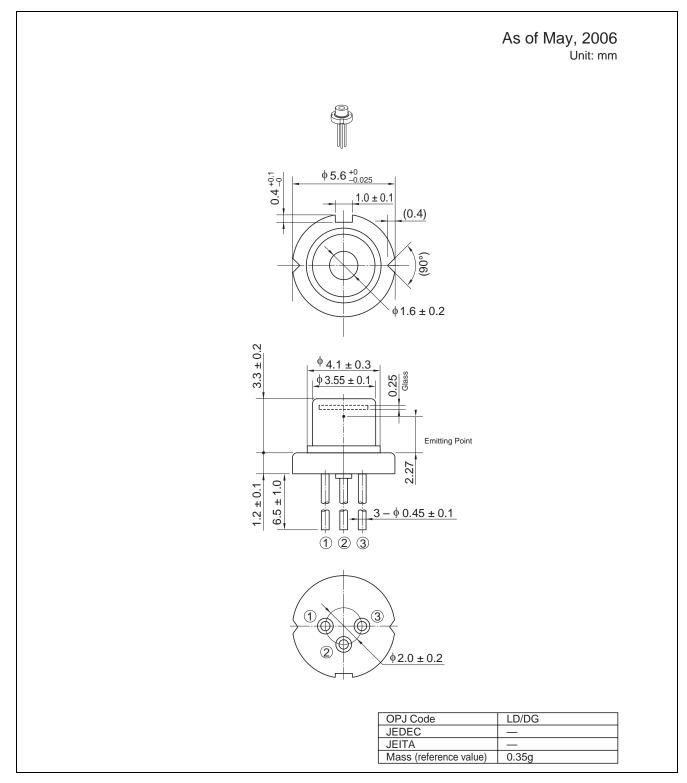


Typical Characteristic Curves





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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