

HL6366DG/67DG

Low Operating Current Visible High Power Laser Diode

ODE-208-061B (Z) Rev.2 Dec. 21, 2006

Description

The HL6366DG/67DG are 0.63 μ m band AlGaInP laser diodes with a multi-quantum well (MQW) structure. They are suitable as light sources for laser display, laser module and optical equipment for measurement.

Features

- Visible light output : 642 nm Typ
- Single longitudinal mode
- Optical output power : 80 mW CW
- Low operating current : 155 mA Typ
- Low operating voltage : 2.7 V Max
- Operating temperature : +50°C
- TE mode oscillation

Absolute Maximum Ratings

Package Type • HL6366DG/67DG: DG	Internal Circuit • HL6366DG		Internal Circuit	
	1 PD			3 ↓ LD
	2		2	

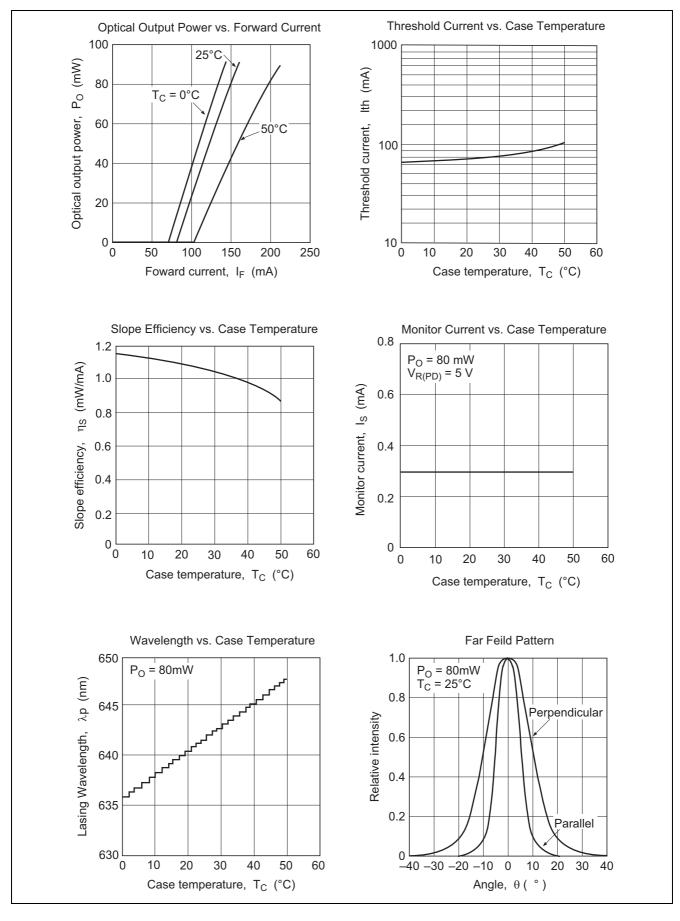
			$(T_{\rm C} = 25^{\circ}{\rm C})$
ltem	Symbol	Ratings	Unit
Optical output power	Po	90	mW
LD reverse voltage	V _{R(LD)}	2	V
PD reverse voltage	V _{R(PD)}	30	V
Operating temperature	Topr	-10 to +50	°C
Storage temperature	Tstg	-40 to +85	°C

Optical and Electrical Characteristics

 $(T_{C} = 25^{\circ}C)$ Symbol **Test Condition** Item Min Тур Max Unit Threshold current lth 80 95 mΑ ____ 155 175 mΑ $P_0 = 80 \text{ mW}$ Operating current IOP Operating voltage 2.5 2.7 V $P_0 = 80 \text{ mW}$ VOP Beam divergence θ// 7 0 $P_0 = 80 \text{ mW}$ 10 13 parallel to the junction 0 $P_0 = 80 \text{ mW}$ Beam divergence $\theta \bot$ 16 21 24 perpendicular to the junction Lasing wavelength 635 642 645 $P_0 = 80 \text{ mW}$ λp nm Monitor current 0.1 0.3 0.5 $P_O = 80 \text{ mW}, V_{R(PD)} = 5 \text{ V}$ ls mΑ

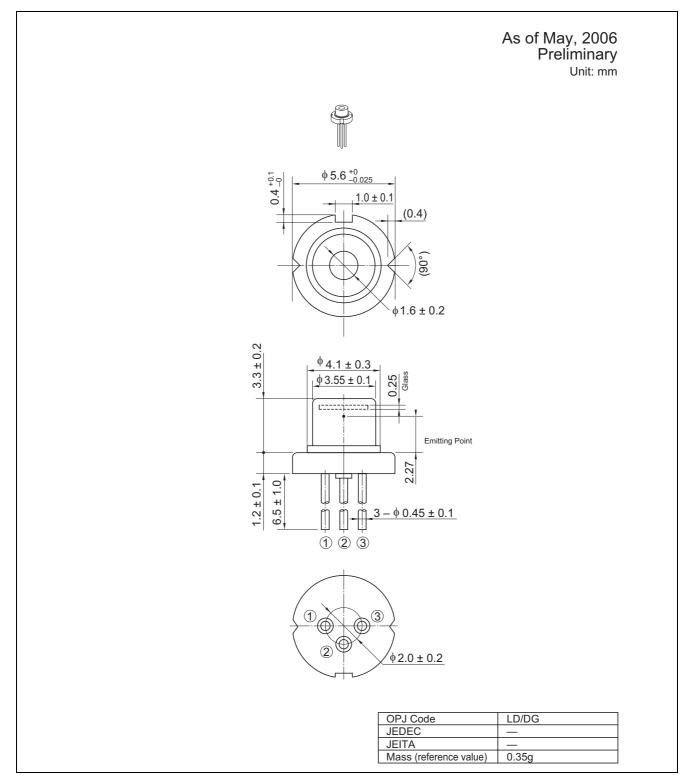


Typical Characteristic Curves





Package Dimensions





Cautions

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- 7. Contact our sales office for any questions regarding this document or OPJ products.
- 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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