

HL6366DG/67DG

Low Operating Current Visible High Power Laser Diode

ODE2028-00 (M) Rev.0 Aug. 01, 2008

Description

The HL6366DG/67DG are $0.63~\mu m$ 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.

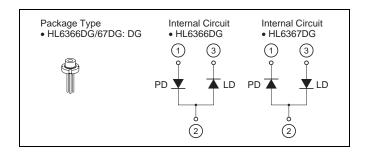
Features

• 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

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

Item	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

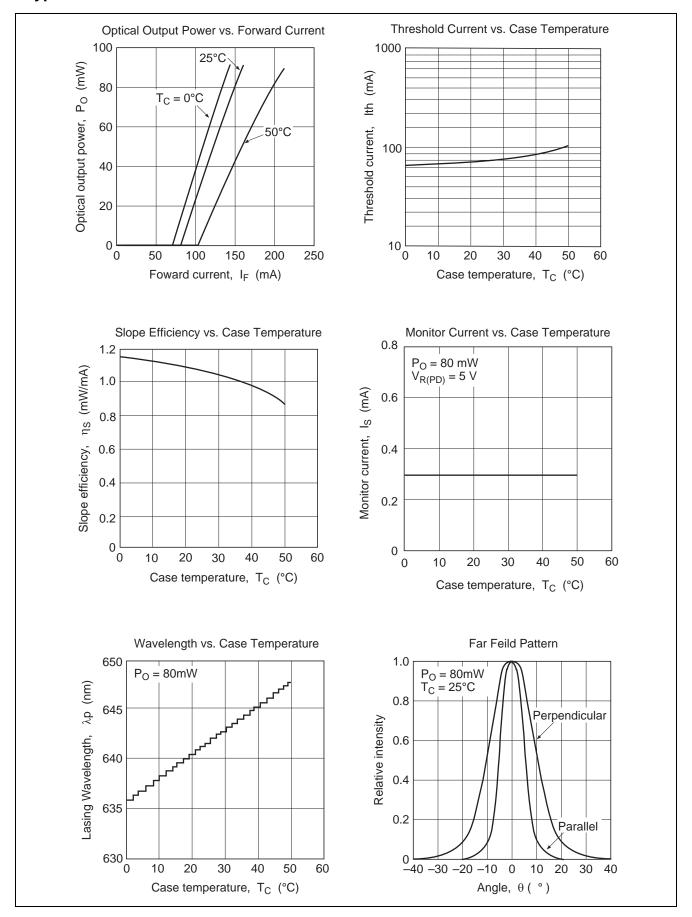
Optical and Electrical Characteristics

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	Ith	_	80	95	mA	_
Operating current	I _{OP}	_	155	175	mA	P _O = 80 mW
Operating voltage	V _{OP}	_	2.5	2.7	V	P _O = 80 mW
Beam divergence parallel to the junction	θ//	7	10	13	0	P _O = 80 mW
Beam divergence perpendicular to the junction	θΤ	16	21	24	0	P _O = 80 mW
Lasing wavelength	λр	635	642	645	nm	P _O = 80 mW
Monitor current	Is	0.1	0.3	0.5	mA	$P_{O} = 80 \text{ mW}, V_{R(PD)} = 5 \text{ V}$



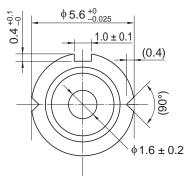
Typical Characteristic Curves

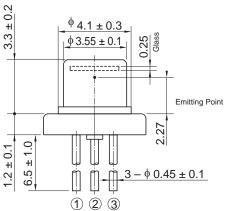


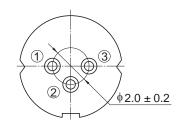
Package Dimensions

As of May, 2006 Unit: mm









OPJ Code	LD/DG
JEDEC	
JEDEC	_
JEITA	_
Mass (reference value)	0.35g

Cautions

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- 6. No one is permitted to reproduce or duplicate, in any form, the whole or part of this document without written approval from OPJ.
- 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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