

HL6385DG

Visible High Power Laser Diode

ODE-208-075 (Z) Tentative Specification Rev.0 Aug. 06, 2007

Description

The HL6385DG is $0.64~\mu m$ band AlGaInP laser diodes with a multi-quantum well (MQW) structure. It is suitable as light sources for laser display and various other types of optical equipment.

Features

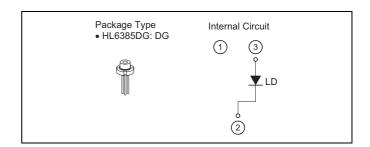
• Visible light output : 643 nm Typ

Single longitudinal mode

• Optical output power : 150 mW CW

• Operating temperature : $+50^{\circ}$ C

TE mode oscillationSmall package : φ5.6mm



Absolute Maximum Ratings

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

Item	Symbol	Ratings	Unit
Optical output power	Po	150	mW
LD reverse voltage	$V_{R(LD)}$	2	V
Operating temperature	Topr	-10 to +50	°C
Storage temperature	Tstg	-40 to +85	°C

Optical and Electrical Characteristics

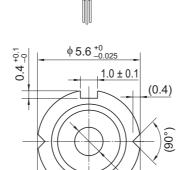
 $(T_C = 25^{\circ}C)$

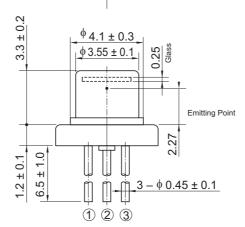
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	Ith	_	110	140	mA	_
Operating current	I _{OP}	_	280	350	mA	P _O = 150 mW
Operating voltage	V _{OP}	_	(2.7)	(3.0)	V	P _O = 150 mW
Beam divergence parallel to the junction	θ//	5	8	11	0	P _O = 150 mW
Beam divergence perpendicular to the junction	θΤ	16	23	30	0	P _O = 150 mW
Lasing wavelength	λρ	(635)	643	647	nm	P _O = 150 mW



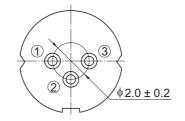
Package Dimensions

As of May, 2006 Preliminary Unit: mm





 $\phi 1.6 \pm 0.2$



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

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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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For the detail of Opnext, Inc., see the following homepage:

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