

HL6724MG

AlGaInP Laser Diode

ODE-208-046 (Z) Rev.0 Oct. 17, 2006

Description

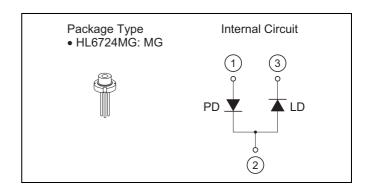
The HL6724MG is a $0.67~\mu m$ band AlGaInP laser diode with a multi-quantum well (MQW) structure. It is suitable as a light source for laser pointers and optical equipments for amusement.

Features

• Visible light output: 670 nm Typ

• Single longitudinal mode

Optical output power: 5 mW CW
Low operating current: 35 mA Typ
Low operating voltage: 2.7 V Max



Absolute Maximum Ratings

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

Item	Symbol	Ratings	Unit
Optical output power	Po	5	mW
Pulse optical output power	P _{O(pulse)}	6 *	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 $\leq 50\%$

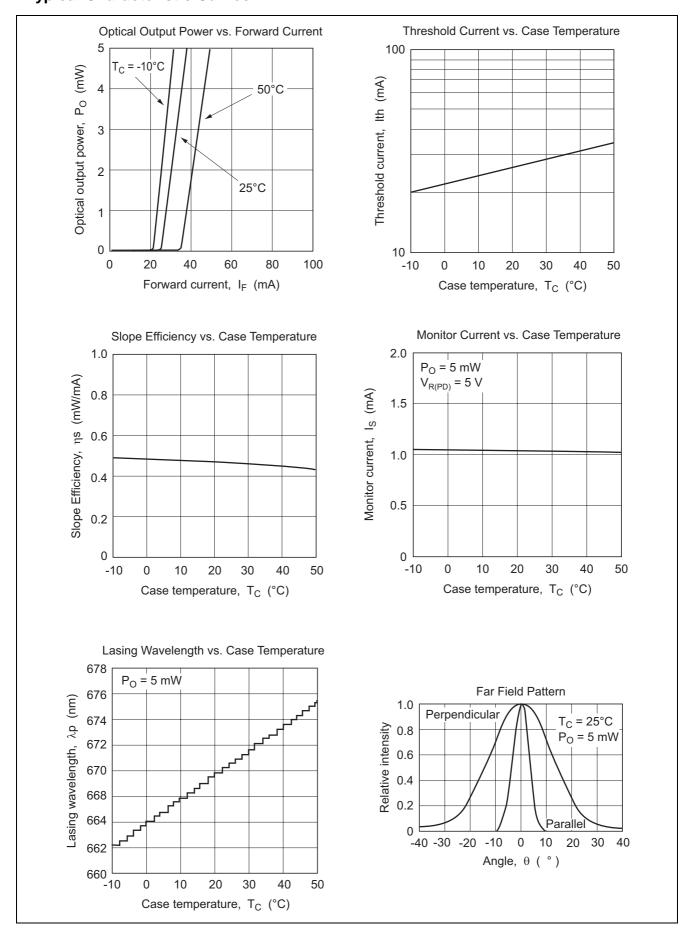
Optical and Electrical Characteristics

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

Item	Symbol	Min	Тур	Max	Unit	Test Conditions
Threshold current	lth	_	25	35	mA	_
LD operating current	I _{OP}	_	35	50	mA	$P_0 = 5 \text{ mW}$
LD operating voltage	V _{OP}	_	_	2.7	V	$P_0 = 5 \text{ mW}$
Beam divergence parallel to the junction	θ//	5	8	11	٥	P _O = 5 mW, FWHM
Beam divergence parpendicular to the junction	θΤ	22	30	40	o	P _O = 5 mW, FWHM
Astigmatism	As	_	5	_	μm	$P_0 = 5 \text{ mW}, \text{ NA} = 0.55$
Lasing wavelength	λр	660	670	680	nm	$P_0 = 5 \text{ mW}$
Monitor current	Is	0.4	0.9	2.0	mA	$P_0 = 5 \text{ mW}, V_{R(PD)} = 5 \text{ V}$



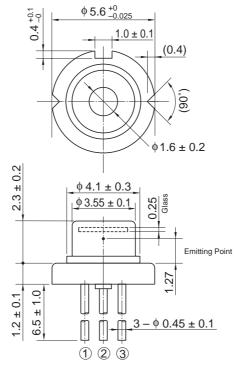
Typical Characteristic Curves

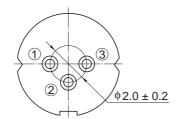


Package Dimensions

As of July, 2002 Unit: mm







OPJ Code	LD/MG
JEDEC	_
JEITA	_
Mass (reference value)	0.3 g



Cautions

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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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