

HL6526FM

Visible High Power Laser Diode

ODE2035-00 (M) Rev.0 Aug. 01, 2008

Description

The HL6526FM is a $0.65~\mu m$ band AlGalnP laser diode (LD) with a multi-quantum well (MQW) structure. It is suitable as a light source for large capacity optical disc memories, and various other types of optical equipment.

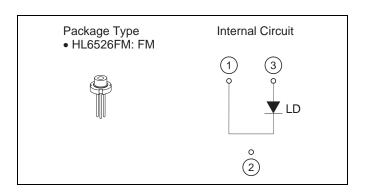
Features

• Operating temperature: 75°C Max (140 mW(pulse), PW = 100ns, duty = 50%)

• Small package: φ 5.6 mm

Visible light output: λp = 658 nm Typ
 Low operating current: Iop = 100 mA Typ

(Po = 60 mW)



Absolute Maximum Ratings

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

Item	Symbol	Ratings	Unit
Optical output power	Po	70	mW
Pulse optical output power	P _{O(pulse)}	140 * ¹	mW
Laser diode reverse voltage	$V_{R(LD)}$	2	V
CW Operating temperature	Topr _(CW)	−10 to +75	°C
Pulse Operating temperature	Topr _(pulse)	−10 to +75	°C
Storage temperature	Tstg	-40 to +85	°C

Note: 1. Pulse condition: Pulse width = 100 ns, duty = 50%

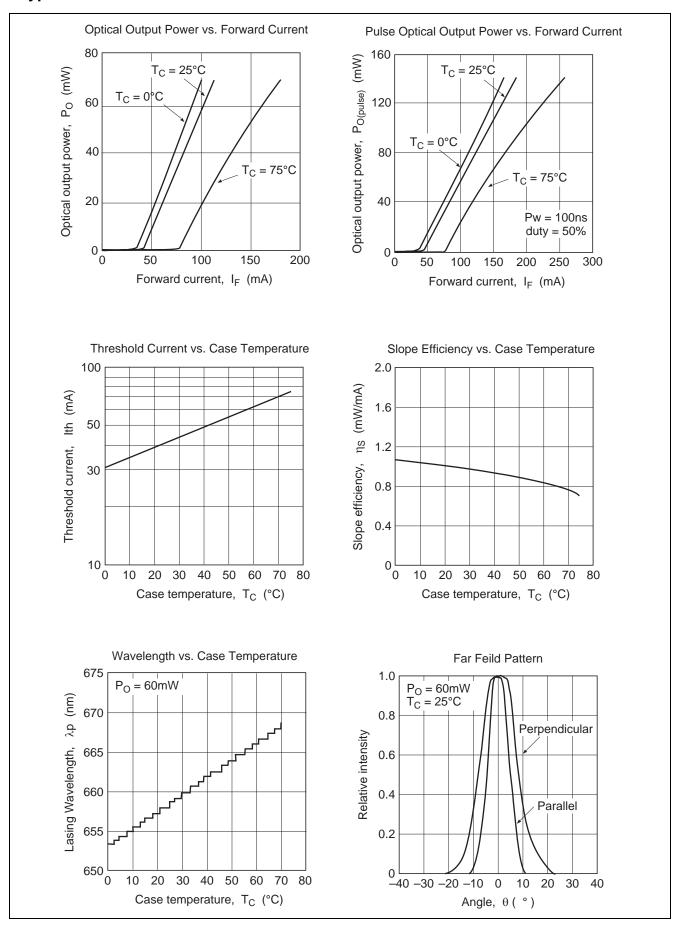
Optical and Electrical Characteristics

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

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Item	Symbol	Min	Тур	Max	Unit	Test Conditions
Threshold current	Ith	_	40	55	mA	_
Operating current	lop	_	100	120	mA	P _O = 60 mW
Operating voltage	V _{OP}	_	2.6	3.0	V	P _O = 60 mW
Lasing wavelength	λр	652	658	662	nm	P _O = 60 mW
Beam divergence parallel to the junction	θ//	7.5	10.0	12.0	٥	P _O = 60 mW
Beam divergence perpendicular to the junction	θΤ	15	17	19	o	P _O = 60 mW
Astigmatism	As	_	1	_	μm	P _O = 3 mW, NA = 0.55



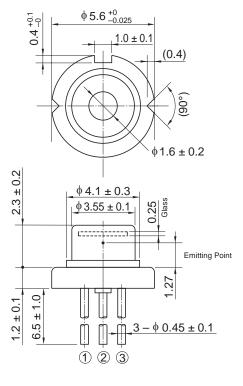
Typical Characteristic Curves

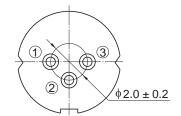


Package Dimensions

As of July, 2002 Unit: mm







OPJ Code	LD/FM
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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