

# **HL6526FM**

# Visible High Power Laser Diode

ODE-208-055 (Z) Rev.0 Oct. 20, 2006

### **Description**

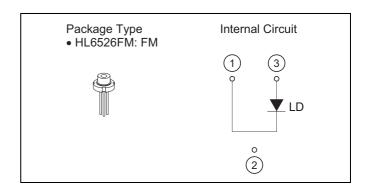
The HL6526FM is a  $0.65~\mu m$  band AlGalnP laser diode (LD) with a multi-quantum well (MQW) structure. It is suitable as a light source for large capacity optical disc memories, and various other types of optical equipment.

#### **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	Po(pulse)	140 * <sup>1</sup>	mW
Laser diode reverse voltage	$V_{R(LD)}$	2	V
CW Operating temperature	Topr <sub>(CW)</sub>	−10 to +75	°C
Pulse Operating temperature	Topr <sub>(pulse)</sub>	−10 to +75	°C
Storage temperature	Tstg	-40 to +85	°C

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

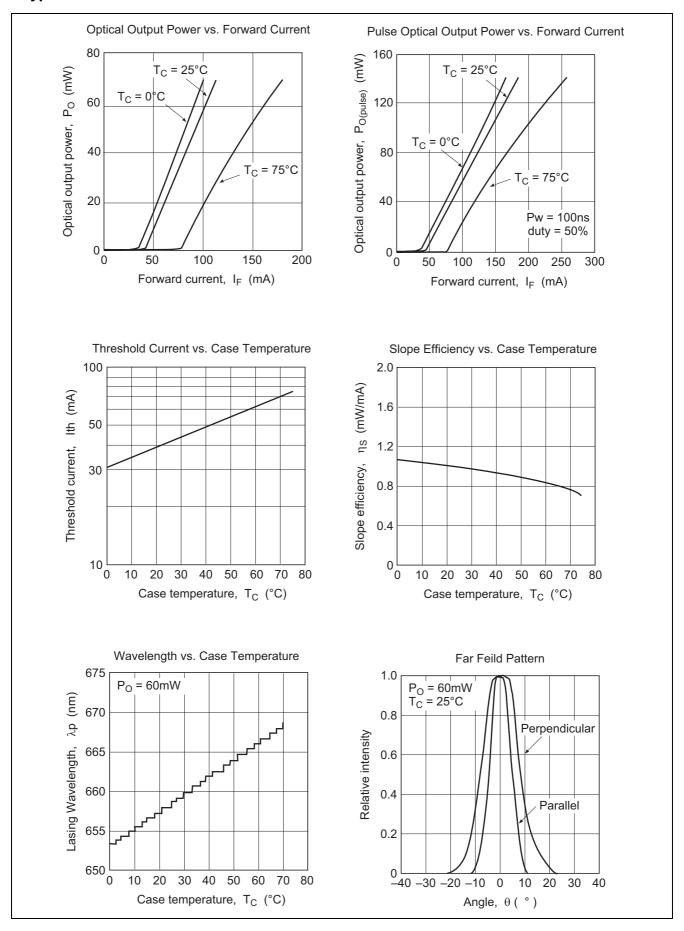
#### **Optical and Electrical Characteristics**

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

Item	Symbol	Min	Тур	Max	Unit	Test Conditions
Threshold current	Ith	_	40	55	mA	_
Operating current	lop	_	100	120	mA	P <sub>O</sub> = 60 mW
Operating voltage	V <sub>OP</sub>	_	2.6	3.0	V	P <sub>O</sub> = 60 mW
Lasing wavelength	λρ	652	658	662	nm	P <sub>O</sub> = 60 mW
Beam divergence parallel to the junction	θ//	7.5	10.0	12.0	٥	P <sub>O</sub> = 60 mW
Beam divergence parpendicular to the junction	θΤ	15	17	19	o	P <sub>O</sub> = 60 mW
Astigmatism	As	_	1	_	μ <b>m</b>	P <sub>O</sub> = 3 mW, NA = 0.55



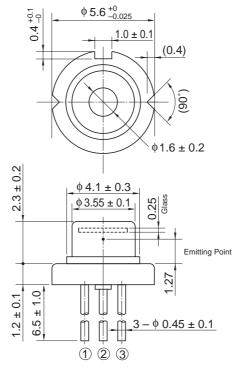
### **Typical Characteristic Curves**

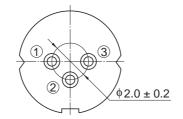


# **Package Dimensions**

As of July, 2002 Unit: mm







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



#### **Cautions**

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- 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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