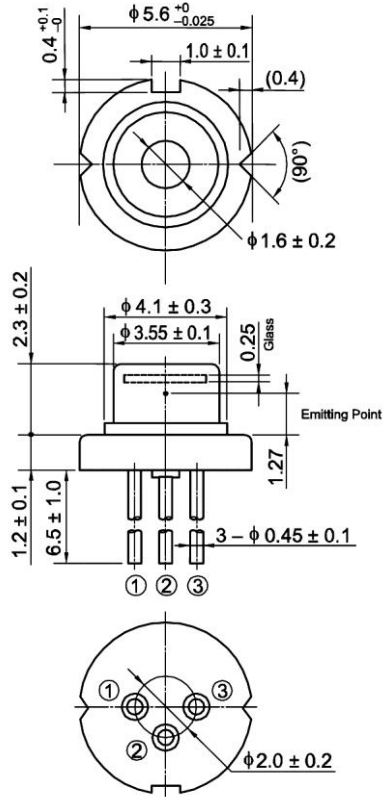


HL6545MG

AlGaInP Laser Diode

660nm/130mW

Outline



Features:

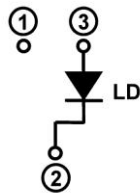
- Visible light output: 660nm Typ.
- Single transverse mode
- Optical output power: 300mW (Pulse)
- Low operating current: 175mA Typ. (120mW (CW)) 350mA Typ. (300mW (Pulse))
- Operating temperature: +75°C
- TE mode oscillation

Applications

- Sensor application
- Light source of optical equipments

Internal Circuit

•HL6545MG



Absolute Maximum Ratings (T_c=25°C)

Item	Symbol	Ratings	Unit
Optical output power	P _o	130	mW
Pulse optical output power	P _{o (pulse)}	300*	mW
LD Reverse Voltage	V _{R(LD)}	2	V
Operating Temperature	T _{opr(CW)}	-10 ~ +75	°C
Operating Temperature	T _{opr(pulse)}	-10 ~ +75	°C
Storage Temperature	T _{stg}	-40 ~ +85	°C

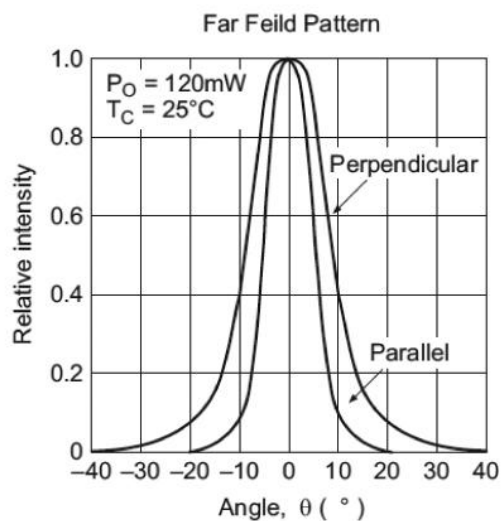
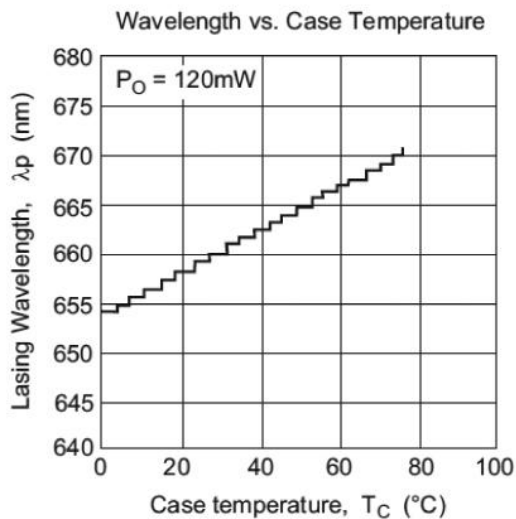
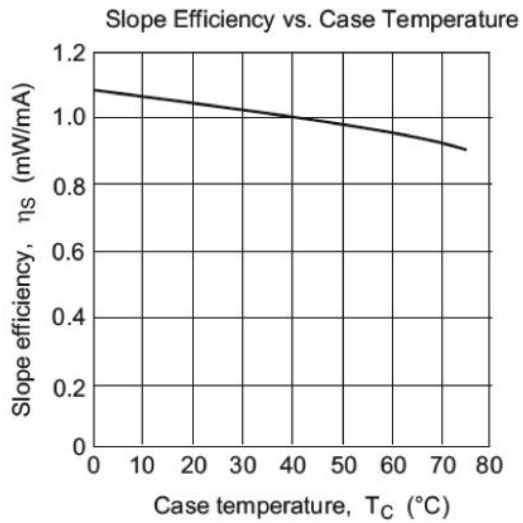
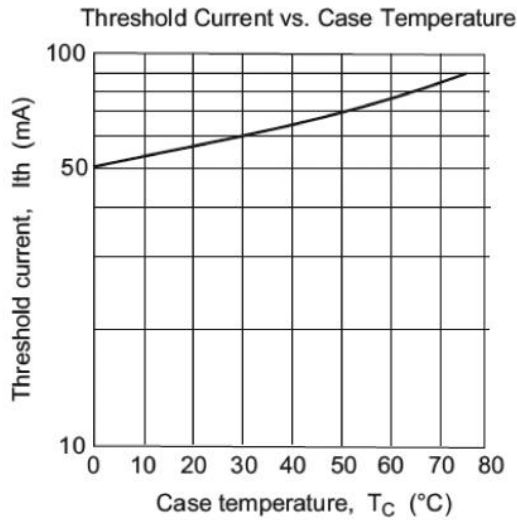
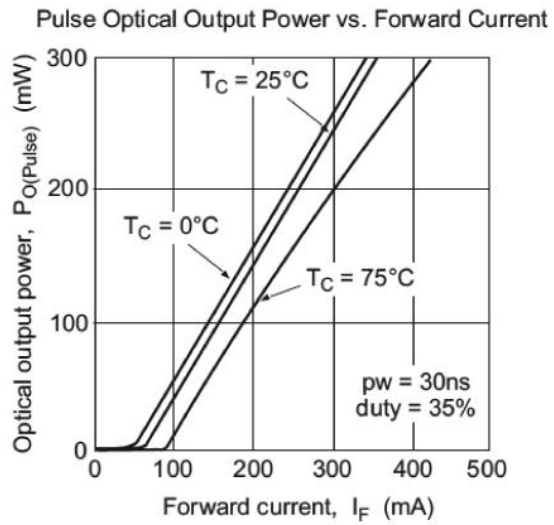
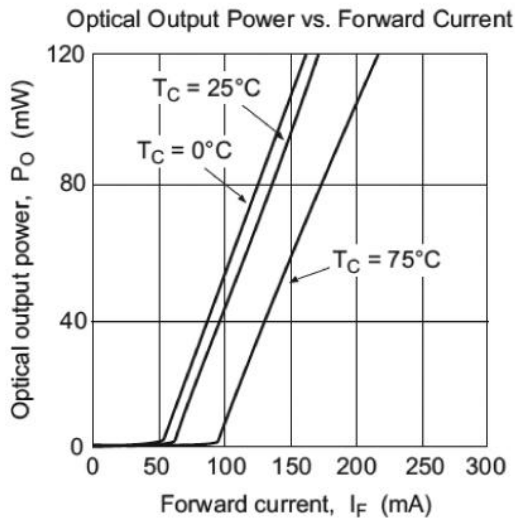
Note: Pulse condition: Pulse width = 30nsec, duty = 35%

Optical and Electrical Characteristics (T_c=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Threshold current	I _{th}	-	60	75	mA	-
Operating current	I _{op}	-	175	210	mA	P _o =120mW
	I _{op(pulse)}	-	350	-	mA	P _o =300mW (Pulse*)
Operating voltage	V _{op}	-	2.5	3.3	V	P _o =120mW
Beam divergence Parallel to the junction	θ _{//}	7.5	10	12	°	P _o =120mW
Beam divergence Perpendicular to the junction	θ _⊥	15	17	19	°	P _o =120mW
Lasing Wavelength	λ _p	652	660	664	nm	P _o =120mW

Note: Pulse condition: Pulse width = 30nsec, duty = 35%

Typical Characteristic Curves



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2.This product (without violet laser diode) 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.

Contact Information

www.oclaro.com

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Caution - use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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