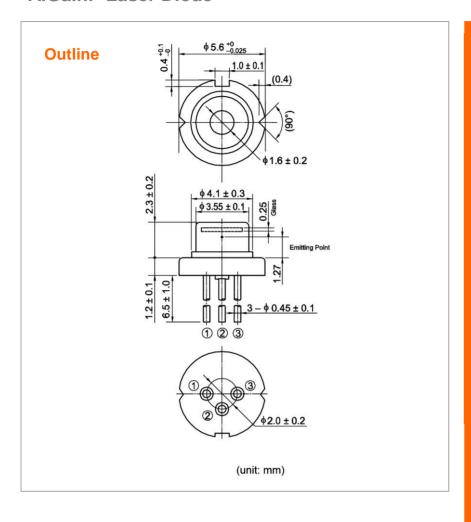


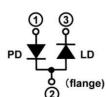
HL6323MG

AlGaInP Laser Diode

639nm/30mW



Internal Circuit



·HL6323MG

Features:

- Optical output power: 30mW(CW)*1
- Visible light output:639nm Typ.
- TM mode oscillation
- Single transverse mode

Applications

- Laser markers
- High speed sensors
- Medical
- Optical Equipment for Measurement



Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power	Po	35* ¹	mW
Pulse Optical output power	Po (pulse)	50* ²	mW
LD Reverse Voltage	V _{R(LD)}	2	V
PD Reverse Voltage	V _{R(PD)}	30	V
Operating Temperature	Topr	-10 ~ +50	°C
Storage Temperature	Tstg	-40 ~ +85	°C

^{*1 :} This value is not the same as the specification for long term reliability, such as life time.

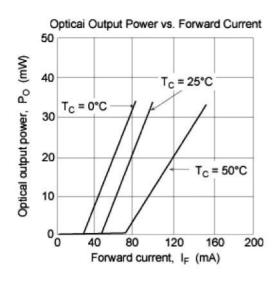
Optical and Electrical Characteristics (Tc=25°C)

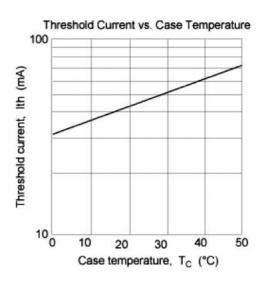
Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	lth	30	45	65	mA	-
Slope efficiency	ηѕ	0.4	0.6	0.9	mW/mA	18(mW)/(I (24mW) -I (6mW))
Operating current	lop	-	95	130	mA	Po=30mW
Operating voltage	Vop	-	2.3	2.8	V	Po=30mW
Lasing Wavelength	λр	635	639	642	nm	Po=30mW
Beam divergence Parallel to the junction	θ//	7	8.5	11	o	Po=30mW
Beam divergence Perpendicular to the junction	θΤ	26	30	34	0	Po=30mW
Monitor current	Is	0.05	0.15	0.25	mA	Po=30mW, V _{R(PD)} =5V

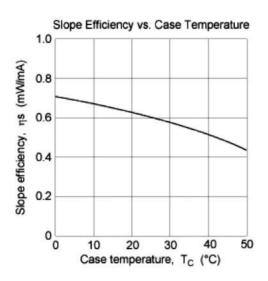
^{*2 :} Pulse condition : pulse width pw=100ns, duty =20%

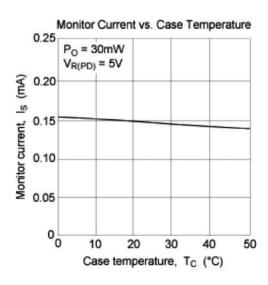


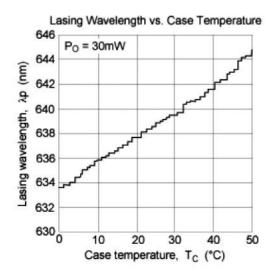
Typical Characteristic Curves

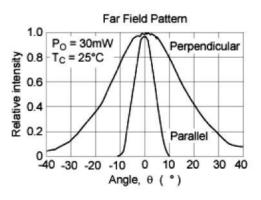












Data Sheet

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