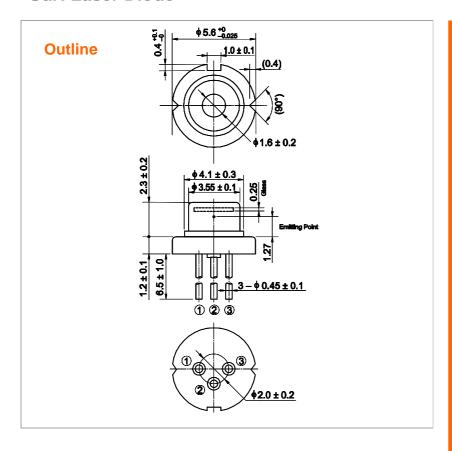


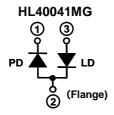
HL40041MG

GaN Laser Diode

404nm/150mW



Internal Circuit



* Monitor PD for initial checking purpose only

Features:

- Operation temperature: -10~+50°C
- Optical output power: 150mW(CW)
- Violet lasing: 404nm Typ.
- Low operating voltage: 5.0V Max.
- Package: ϕ 5.6mm
- Multiple transverse mode
- TE mode oscillation

Applications:

- Bio & Medical
- Measurement

Data Sheet



Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power	Po	150	mW
LD Reverse Voltage	VR(LD)	2	V
PD Reverse Voltage *	VR(PD)	20	V
Operating Temperature	Topr	-10 ~ +50	°C
Storage Temperature	Tstg	-40 ~ +85	°C

^{*} Monitor PD for initial checking purpose only

Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	lth	-	60	120	mA	-
Operating current	lop	-	150	250	mA	Po=150mW
Operating voltage	Vop	-	-	5.0	V	Po=150mW
Beam divergence Parallel to the junction	θ//	5	13	25	0	Po=150mW, Full angle 1/e ²
Beam divergence Perpendicular to the junction	θΤ	30	45	60	0	Po=150mW Full angle 1/e ²
Lasing Wavelength	λр	398	404	410	nm	Po=150mW
Monitor Current *	Is	0.05	0.15	0.50	mA	Po=150mW, VR(PD)=5V

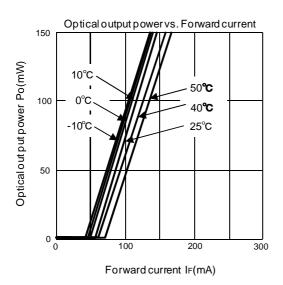
Monitor PD for initial checking purpose only

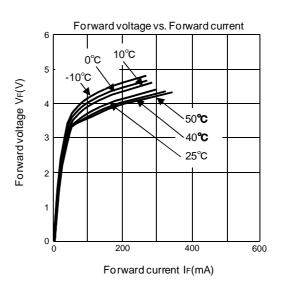


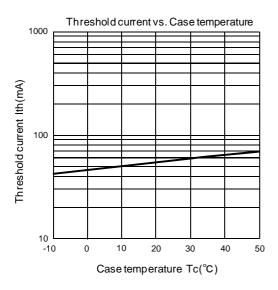
Data Sheet

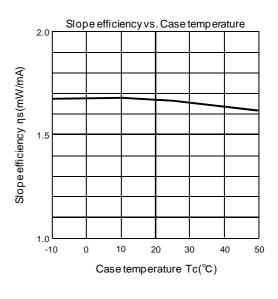
Typical Characteristic Curves

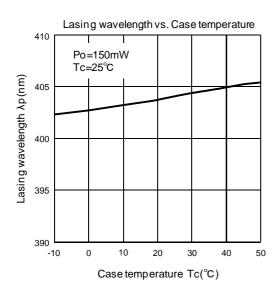


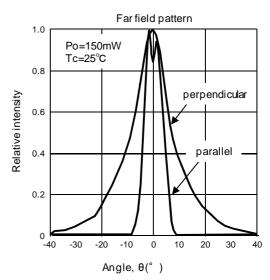












Data Sheet



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