

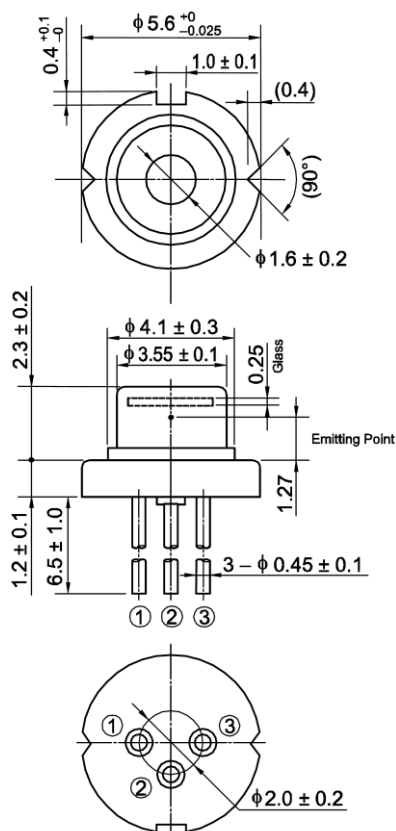


HL67241MG

685nm/55mW (CW)/210mW (Pulse)

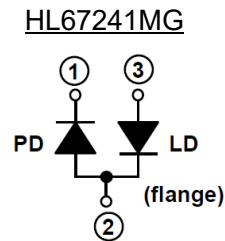
AlGaInP Laser Diode

Outline



(unit: mm)

Internal Circuit



Features

- Optical output power: 55mW (CW)
210mW (Pulse)
- Visible lasing: 685nm Typ at 50mW
- Low operating current: 75mA Typ at 50mW
- Single transverse mode
- TE mode oscillation
- Small package: $\phi 5.6$ mm CAN Package

Application

- Distance meter
- Sensing
- Measurement
- Light source of optical equipment

Absolute Maximum Ratings (Tc=25°C)

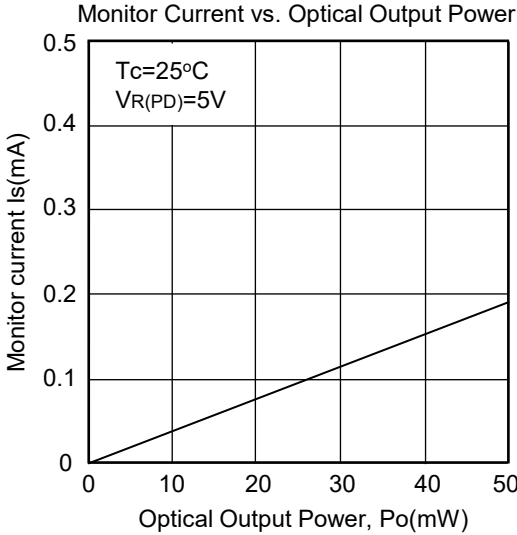
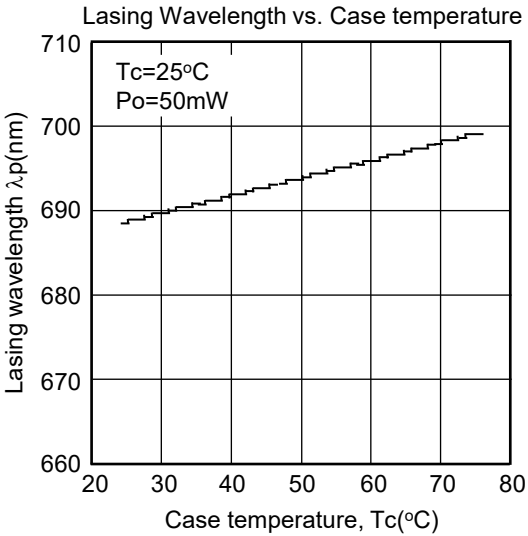
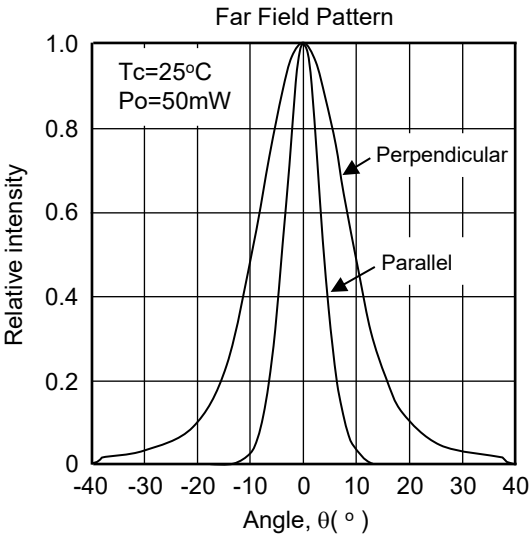
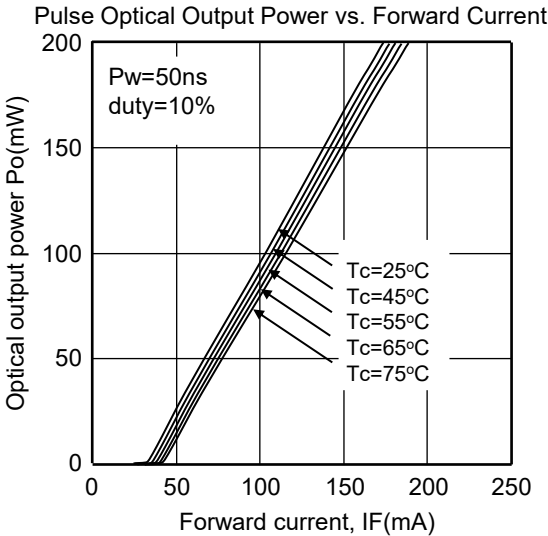
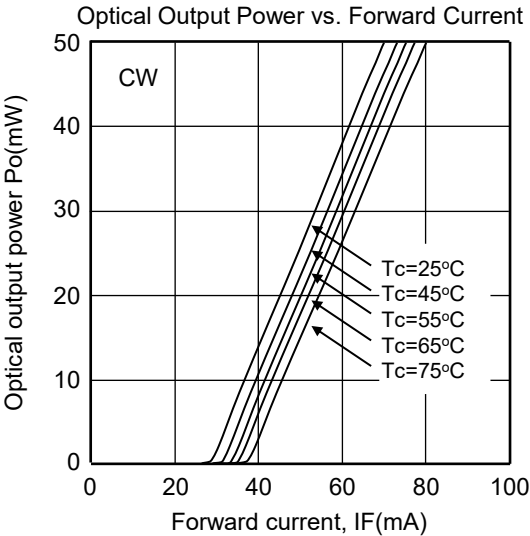
Item	Symbol	Ratings	Unit
Optical output power	Po	55	mW
Pulse optical output power ^{Note1)}	Po(Pulse)	210	mW
LD reverse voltage	VR(LD)	2	V
PD reverse voltage	VR(PD)	30	V
Operating temperature	Topr	-10 ~ +75	°C
Storage temperature	Tstg	-40 ~ +85	°C

Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Threshold current	Ith	-	30	60	mA	-
Operating current	Iop	-	75	105	mA	Po=50mW
Pulse operating current	Iop(Pulse)	-	200	-	mA	Po(Pulse)=200mW Note 1
Operating voltage	Vop	-	2.3	3.0	V	Po=50mW
Beam divergence Parallel to the junction	$\theta_{//}$	5	8	11	°	Po=50mW FWHM
Beam divergence Perpendicular to the junction	$\theta_{\perp}$	15	19	23	°	Po=50mW FWHM
Lasing Wavelength	λ_p	675	685	695	nm	Po=50mW
Monitor current	mA	0.02	0.18	0.6	mA	Po=50mW VR(PD)=5V

Note1) Pulse condition: Pulse width=10ns, duty=10%

Typical Characteristic Curves



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