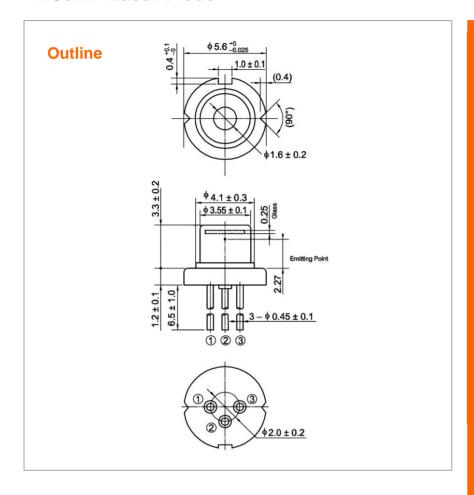


# **HL6366DG/67DG**

# **AlGaInP Laser Diode**

642nm/90mW



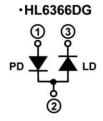
# Features:

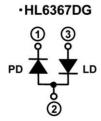
- Visible light output: 642nm Typ.
- Optical output power: 80mW (CW)
- Single transverse mode
- Low operating current: 155mA Typ.
- Low operating voltage: 2.7V Max.
- Operating temperature: +50°C
- TE mode oscillation

## **Applications**

- Laser module
- Light source of optical equipments

### **Internal Circuit**





## HL6366DG/67DG



# **Absolute Maximum Ratings (Tc=25°C)**

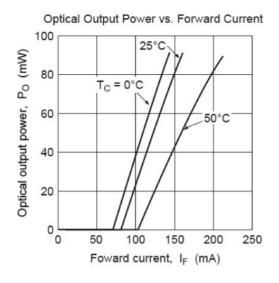
Item	Symbol	Ratings	Unit
Optical output power	Po	90	mW
LD Reverse Voltage	V <sub>R(LD)</sub>	2	V
PD Reverse Voltage	V <sub>R(PD)</sub>	30	V
Operating Temperature	Topr	-10 ~ +50	°C
Storage Temperature	Tstg	-40 ~ +85	°C

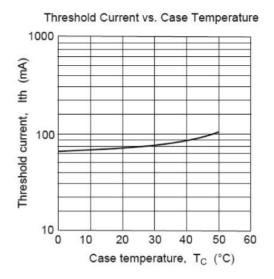
# **Optical and Electrical Characteristics (Tc=25°C)**

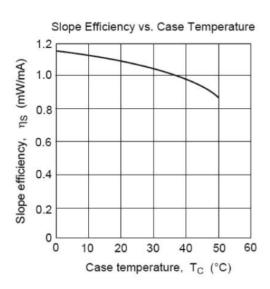
Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	lth	-	80	95	mA	-
Operating current	lop	-	155	175	mA	Po=80mW
Operating voltage	Vop	-	2.5	2.7	V	Po=80mW
Beam divergence Parallel to the junction	θ//	7	10	13	o	Po=80mW
Beam divergence Perpendicular to the junction	θ⊥	16	21	24	o	Po=80mW
Lasing Wavelength	λр	635	642	645	nm	Po=80mW
Monitor current	ls	0.1	0.3	0.5	mA	Po=80mW, V <sub>R(PD)</sub> =5V

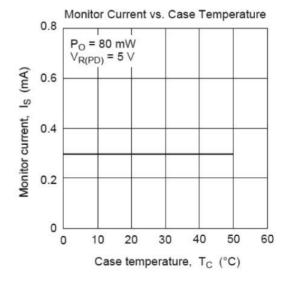


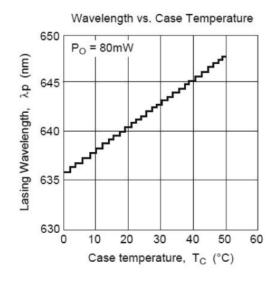
# **Typical Characteristic Curves**

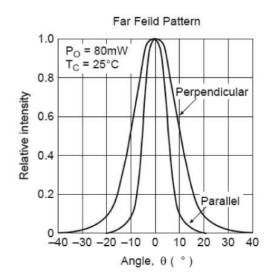












### **Data Sheet**

### HL6366DG/67DG



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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**

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