

AlGaInP Visible Laser Diode

ADL-65077SU

6-2D-LD65-017 Rev.00

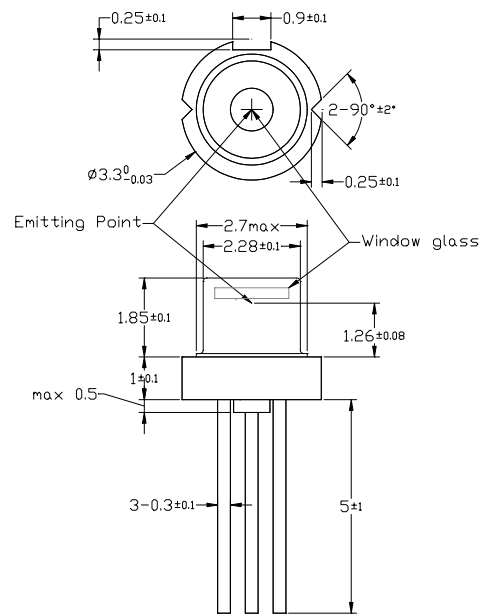
★ $\varnothing 3.3\text{mm}$ Mini Package!
7mW Reliable Operation

• Features

1. Smallest package
2. Low operating current
3. Higher power

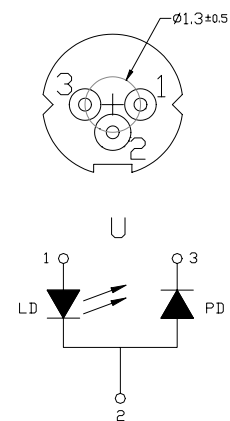
• Applications

1. Super slim DVD/Combo OPU
2. Mini size optical modules
3. Laser sensor



• Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	P_O	CW	10	mW
Reverse voltage (LD)	V_{RL}	-	2	V
Reverse voltage (PD)	V_{RD}	-	30	V
Forward current (PD)	I_{FD}	-	10	mA
Case temperature	T_C	-	-10~+70	$^{\circ}\text{C}$
Storage temperature	T_S	-	-40~+85	$^{\circ}\text{C}$



• Electrical and optical characteristics ($T_c=25^{\circ}\text{C}$)

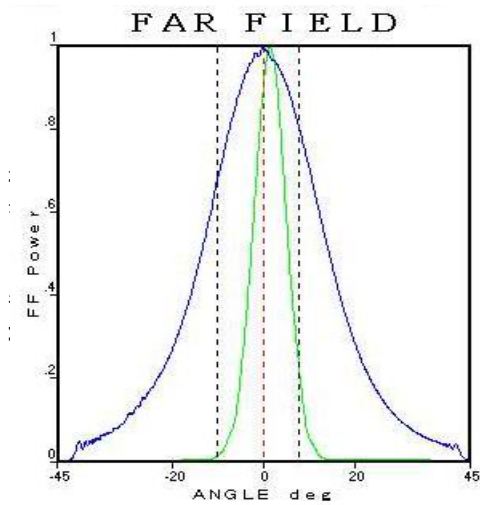
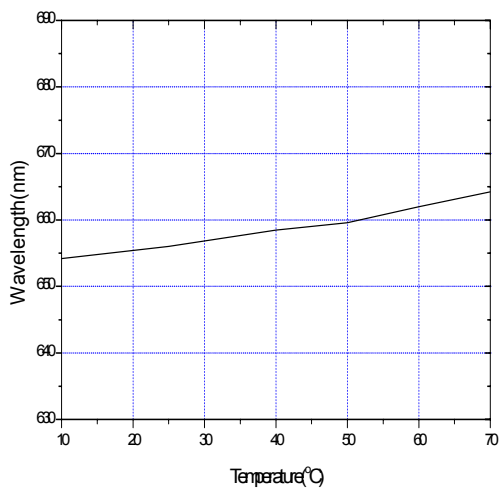
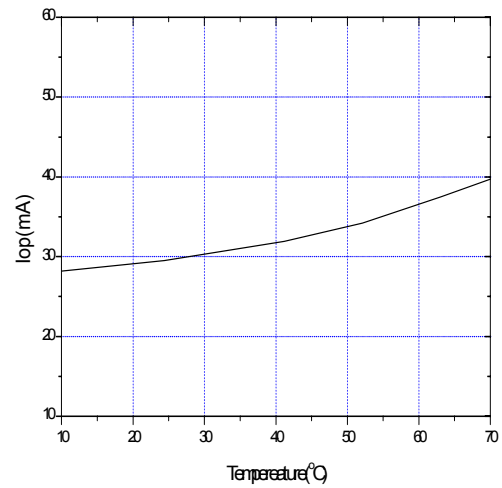
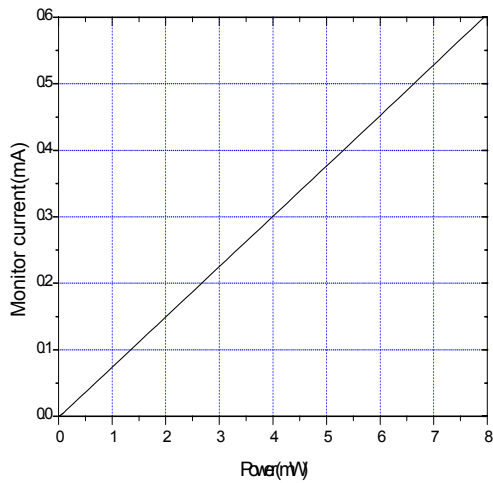
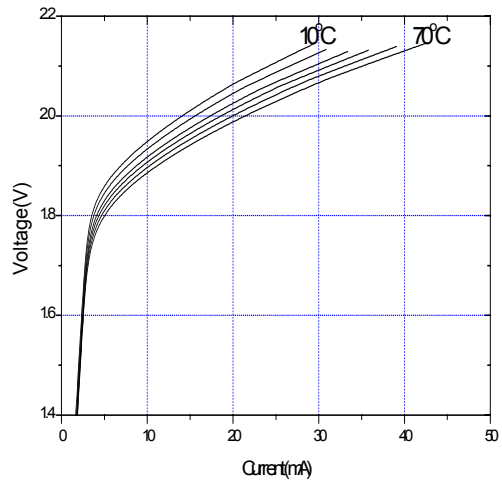
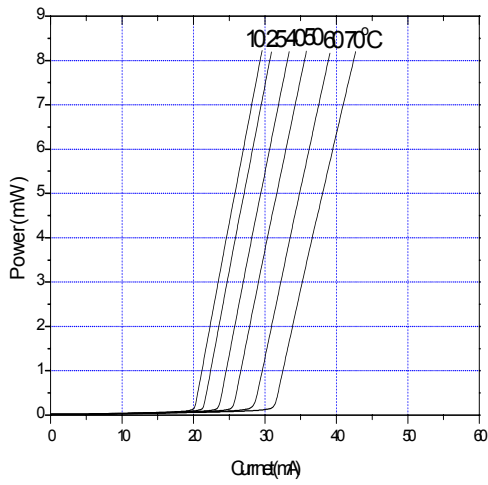
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Peak wavelength	λ	645	655	660	nm	$P_o=7\text{mW}$
Threshold current	I_{th}	-	20	25	mA	
Operating current	I_{op}	-	25	35	mA	$P_o=7\text{mW}$
Operating voltage	V_{op}	-	2.2	2.5	V	$P_o=7\text{mW}$
Differential efficiency	η	0.7	0.9	1.2	mW/mA	$P_o=3\text{-}5\text{mW}$
Monitor current	I_m	0.3	0.4	0.6	mA	$P_o=7\text{mW}$
Parallel divergence angle	$\theta_{ }$	6	9	12	deg	
Perpendicular divergence angle	θ_{\perp}	25	28	32	deg	
Parallel FFP deviation angle	$\Delta\theta_{ }$	-2	0	+2	deg	$P_o=7\text{mW}$
Perpendicular FFP deviation angle	$\Delta\theta_{\perp}$	-2	0	+2	deg	
Emission point accuracy	$\Delta x\Delta y\Delta z$	-80	0	+80	μm	

• Precautions

- * Do not operate the device above maximum ratings. Doing so may cause unexpected and permanent damage to the device.
- * Take precautions to avoid electrostatic discharge and/or momentary power spikes. A change in the characteristics of the laser or premature failure may result.
- * Proper heat sinking of the device assures stability and lifetime. Always ensure that maximum operating temperatures are not exceeded.
- * Observing visible or invisible laser beams with the human eye directly, or indirectly, can cause permanent damage. Use a camera to observe the laser.
- * No laser device should be used in any application or situation where life or property is at risk in event of device failure.
- * Specifications are subject to change without notice. Ensure that you have the latest specification by contacting us prior to purchase or use of the product

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Arima
LASERS



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