

# AlGaInP Red Laser Diode

**ADL-63V01CZ**

DATE : 2008/05/16 Ver 4.0

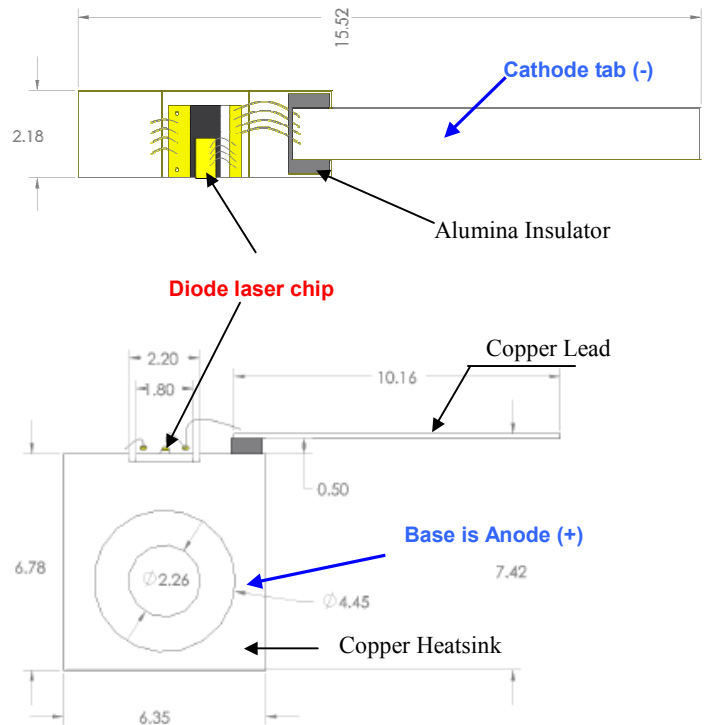
★635nm 0.5W 30 °C C-Mount PKG

## •Features

1. High power
2. High brightness
3. Long lifetime
4. Narrow spectral line-width
5. High polarization purity

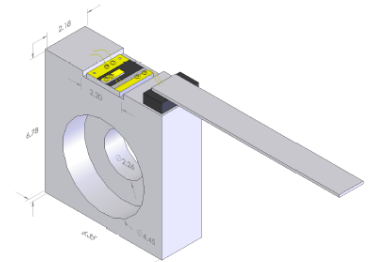
## •Applications

1. Laser display
2. PDT
3. Biochemistry
4. Military
5. Solid-state laser pumping
6. Material processing
7. Medical/Life and health sciences
8. Illumination



## •Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	$P_O$	CW	600	mW
Reverse voltage (LD)	$V_{RL}$	-	2	V
Case temperature	$T_C$	-	-10~+30	°C
Storage temperature	$T_S$	-	-40~+85	°C



※ Dimensions are in mm.

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Peak wavelength	$\lambda$	630	636	640	nm	$P_O=500\text{mW}$
Wavelength Temperature Coefficient			0.25	0.3	nm/°C	$P_O=500\text{mW}$
Emitter size		-	50	-	um	
Polarization			TM			
Threshold current	$I_{th}$	-	200	300	mA	
Operating current	$I_{op}$	-	700	1000	mA	$P_O=500\text{mW}$
Operating voltage	$V_{op}$	-	2.5	3.0	V	$P_O=500\text{mW}$
Differential efficiency	$\eta$	-	1.0	-	mW/mA	$P_O=300\text{-}500\text{mW}$
Parallel divergence angle	$\theta_{  }$	-	3.5	12	deg	$P_O=500\text{mW}$
Perpendicular divergence angle	$\theta_{\perp}$	30	36	40	deg	
Total conversion efficiency		-	28	-	%	

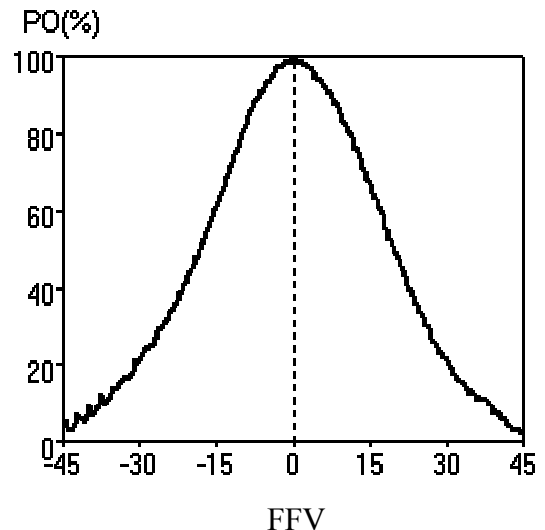
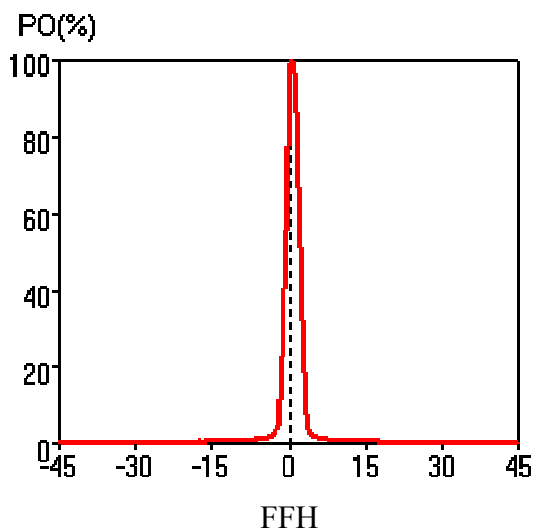
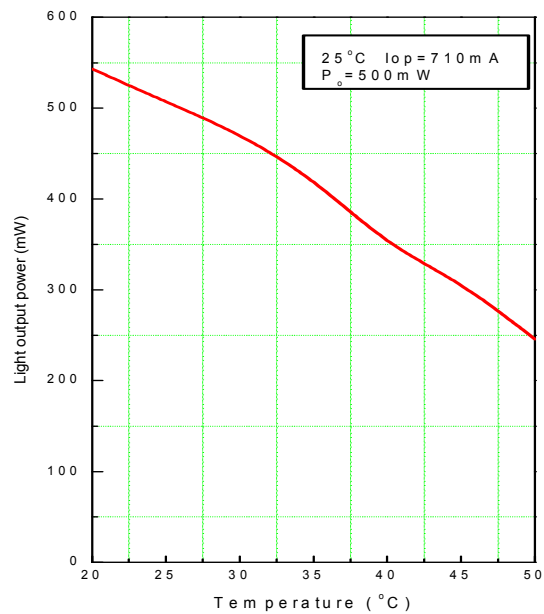
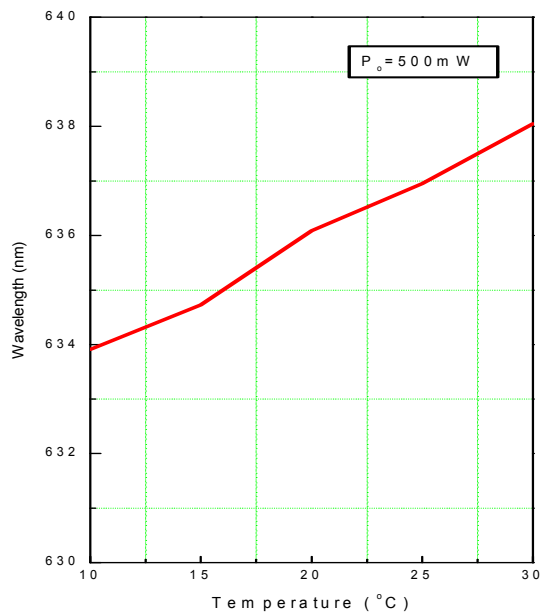
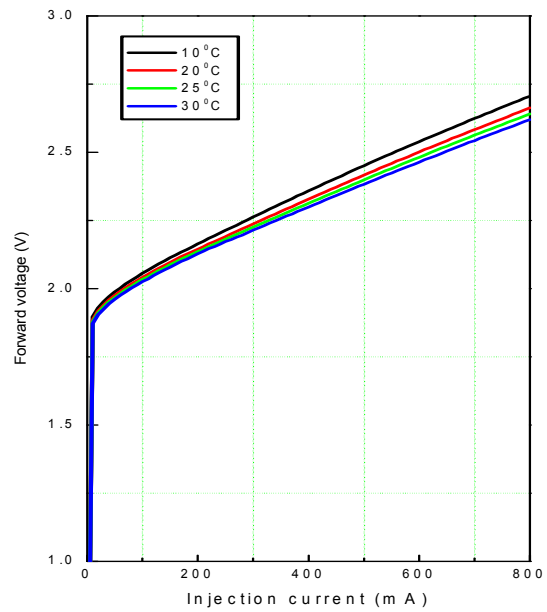
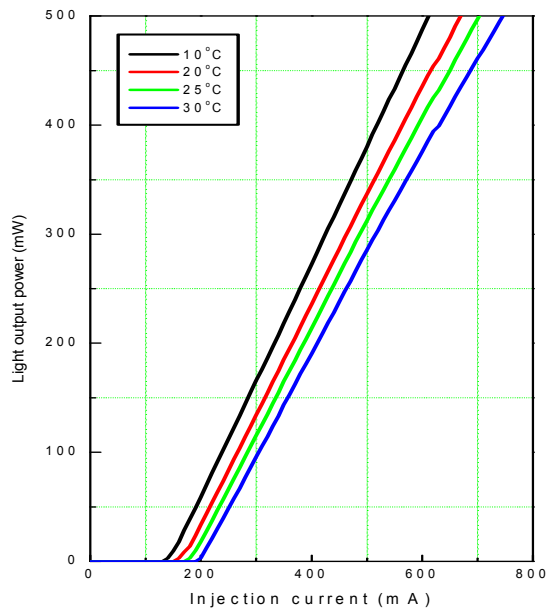
\* For reference only. Contents above are subject to change without notice.

**Arima**  
LASERS

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