AlGaInP Visible Laser Diode

ADC-6507B04

6-2D-LC65-004_Rev.00

650nm 7mW LD Chip on Submount

Features

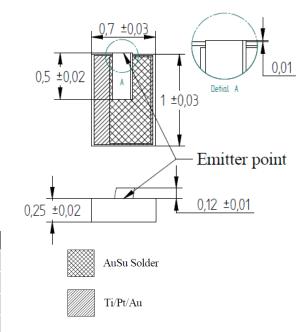
Low operating current

Applications

For TO-type package Laser pointers

Absolute maximum ratings

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Parameter	Symbol	Condition	Rating	Unit
Light output power	Po	Pulse*2	7*1	mW
Reverse voltage (LD)	V_{RL}	-	2	V
Operation temperature	T _{op}	-	-10 ~ +70	°C
Storage temperature	Ts	-	-40 ~ +85	°C



^{*1} Lasers shall be used within the absolute maximum ratings. Exceeding these limits may damage the laser chip and this doesn't mean the guarantee its lifetime.

Electrical and optical characteristics (Tc=25°C)*4

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Peak wavelength	λ	645	655	660	nm	P _o =7mW	
Threshold current	I _{th}	-	21	25	mA	-	
Operating current	l _{op}	-	29	35	mA	P _o =7mW	
Operating voltage	V _{op}	-	2.3	2.9	V	P _o =7mW	
Differential efficiency	η	0.65	0.85	1.1	mW/mA	P _o =5-7mW	
Parallel divergence angle	θ _{//}	6	9	12	deg.	P _o =7mW	
Perpendicular divergence angle	$ heta_{\perp}$	25	28	32	deg.		

^{*4} Measure condition: Duty cycle = 1% with pulse width = $2\mu s$

• 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.



^{*2} Measure condition: Duty cycle less than 1% with pulse width less than 2µs

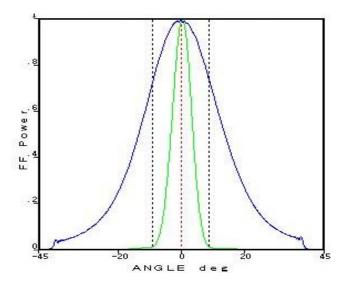
^{*3} Proper the heat sinking of the device assures stability and lifetime

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