

6-2D-LD65-017_Rev.01

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

Features

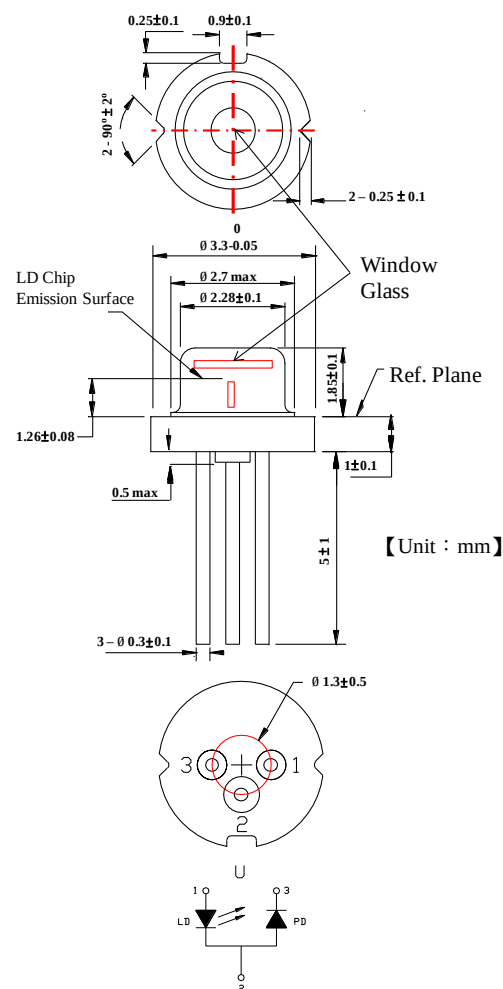
Smallest package
Low operating current
Higher power

Applications

Super slim DVD/Combo OPU
Mini size optical modules
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
Case temperature	T_C	—	-10 ~ +70	°C
Storage temperature	T_S	—	-40 ~ +85	°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	$P_O=7\text{mW}$
Perpendicular divergence angle	$\theta_{\perp}$	25	28	32	deg	
Parallel FFP deviation angle	$\Delta\theta_{//}$	-2	0	+2	deg	
Perpendicular FFP deviation angle	$\Delta\theta_{\perp}$	-2	0	+2	deg	
Emission point accuracy	$\Delta x \Delta y \Delta z$	-80	0	+80	um	

● 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.

ARIMA LASERS CORP.

PHONE: 886-3-4699800 | FAX: 886-3-4699600

E-MAIL: Ldsales@arimalasers.com | www.arimalasers.com

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

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