6-2D-LD63-086\_Rev.02

# O9 (9mm) PKG

## Features

High power High brightness Long lifetime

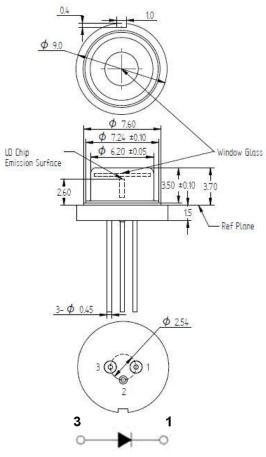
### **Applications**

Laser display **PDT** Biochemistry Military Medical/Life and health sciences Illumination

### Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	Po	CW	800	mW
Reverse voltage (LD)	$V_{RL}$	-	2	V
Case temperature	T <sub>C</sub>	-	-10~+30	°C
Storage temperature	Ts	-	-40~+85	°C

### Unit: mm



# Electrical and optical characteristics (T<sub>c</sub>=25 °C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Peak wavelength	λ	628	638	648	nm	Po=700mW	
Emitter size		-	50	-	um		
Polarization			TM				
Threshold current	I <sub>th</sub>	-	500	600	mA		
Operating current	I <sub>op</sub>	-	1400	1600	mA	Po=700mW	
Operating voltage	V <sub>op</sub>		2.5	3.0	V	Po=700mW	
Differential efficiency	η	-	0.85	-	mW/mA	Po=20-200mW	
Parallel divergence angle	θ//		7		deg	Po=700mW	
Perpendicular divergence angle	$ heta_{\perp}$	-	22	-	deg		

Sufficient heat dissipation is required for CW operation.

#### **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





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# 635nm 0.7W TO9 (9mm) PKG

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