



LDM850/3LJ

- Infrared Laser Module
- 850 nm, 3 mW
- APC (Automatic Power Control)
- Aspheric acrylic lens, focusable



Description

LDM850/3LJ is a 850 nm laser module containing a 850 nm MOCVD grown laser diode with quantum well structures. It is an ideal light source for measurement and medical applications.

Maximum Ratings

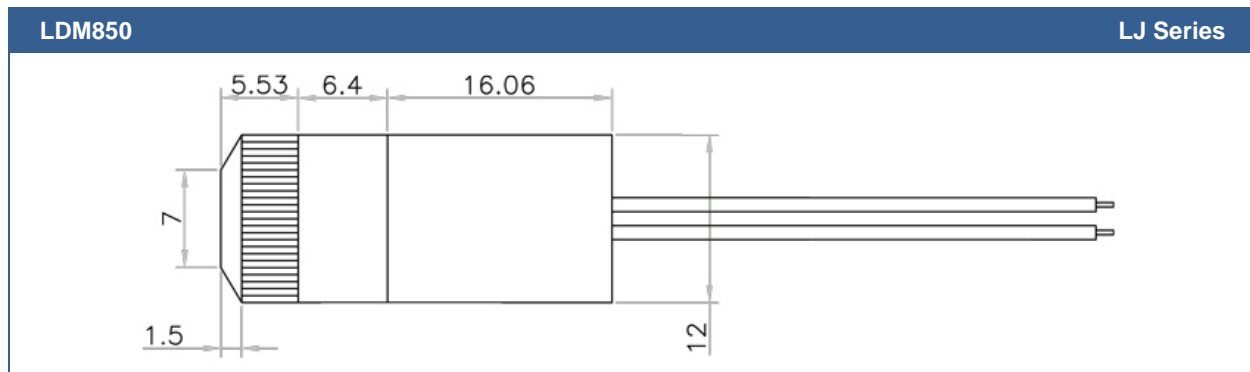
Parameter	Symbol	Values		Unit
		Min.	Max.	
Optical Power	P_O		3	mW
Operating Temperature	T_{CASE}	- 10	+ 50	°C
Storage Temperature	T_{STG}	- 25	+ 85	°C

Electrical and Optical Characteristics ($T_{CASE}=25^{\circ}C$)

Parameter	Symbol	Min.	Values	Max.	Unit
			Typ.		
Emission Wavelength	λ_{Peak}	840	850	860	nm
Optical Output Power	P_O		2.8	3	mW
Operating Current	I_{OP}		20	30	mA
Operating Voltage	V_{OP}	3.0		5.0	V
Beam Divergence (Full Width)	θ		0.5		mrاد
Wiring		RED (+) , BLACK (-)			
MTTF		>10000 @ 3 mW			hours
Dimensions		Ø12 x 30.5			mm



Outline Dimensions



All Dimensions in mm

Precautions

Mounting Instruction:

In order to maintain lifetime and stability of the laser diode it is essential to provide efficient heat management. For long time stable operation proper contact between laser module and heat sink is mandatory.

Safety Advice:

This laser module emits highly concentrated visible light which can be **hazardous to the human eye and skin**. It is classified as **CLASS 3R laser product** according to **IEC 60825-1** and **21 CFR Part 1040.10 Safety Standards**. Actual laser light emitted and precautions necessary strongly depend on mode of operation.

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