

LM-101-A4

- 650 nm Diode Laser Module
- Laser Class 2
- Automatic Power Control
- 3 VDC Input Voltage

Description

LM-101-A is a small size, low cost, red diode laser module, emitting at a wavelength of typically 650 nm, with an optical output power of <1 mW. It features automatic power control (APC) driving electronics for stable operation, and is designed for 3 VDC supply voltage.

Maximum Ratings (T_{CASE} = 25°C)

Parameter	Values		Unit
	Min.	Max.	Unit
Operating temperature	+ 0	+ 40	°C
Storage temperature	- 25	+ 70	°C

Electro-Optical Characteristics (TCASE = 25°C)

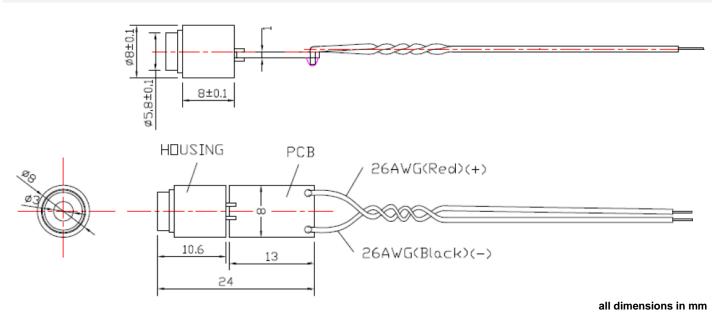
Values			L Insit
Min.	Тур.	Max.	Unit
645	650	660	nm
0.45		0.85	mW
3.5 x 1.7 (+/- 0.5)		mm	
10 - 15 mm			mm
2.8		3.4	VDC
	16	40	
Brass			
Acryl			
Ø 8 x 11 (24) mm			
26 AWG PVC-Free			
	5000		h
	645 0.45 3.3 2.8	Min. Typ. 645 650 0.45 3.5 x 1.7 (+/- 0) 3.5 x 1.7 (+/- 0) 10 - 15 2.8 16 Brack Acc Ø 8 x 11 (24) 26 AWG	Min. Typ. Max. 645 650 660 0.45 0.85 0.85 $3.5 \times 1.7 (+/- 0.5)$ $10 - 15$ $10 - 15$ 2.8 16 40 16 40 $Brass$ $Acryl$ $0.85 \times 11 (24)$ $26 AWG PVC-Free$







Outline Dimensions



Electrical Connection

Lead	Description
Red	+VDC
Black	GND

Precautions

Static Electricity:

Precautions against electrostatic discharge (ESD) must be taken when handling or operating the module. Surge voltage or electrostatic discharge can result in complete failure of the laser module.

Heat Sinking:

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 recommend.

Safety:

This laser module emits concentrated visible light which can be hazardous to the human eye and skin. It is classified as CLASS 2 laser product according to IEC 60825-1 and 21 CFR Part 1040.10 Safety Standards.

