

Infrared APC Laser Module APCD-850-01-C2-A/B

6-2D-LM85-002 Rev.01

Φ4mm 850nm Laser Module

P_o < 1mW

Features

1. APC (auto power control) IC inside
2. Low current consumption of the APC circuit
3. Much smaller LD module
4. Surge current protection
5. High quality lens for output beam



Absolute maximum ratings

Item	Symbol	Rating	Unit
Power supply voltage	V _{cc}	3.3	V
Laser Module optical output power	P _o	<1	mW
Operation temperature	T _{opr}	0~40	°C
Storage temperature	T _{stg}	0~60	°C

Electrical and optical characteristics (T_c=25 °C)

Item	Symbol	Min.	Typ.	Max	Unit	Condition
Wavelength	λ	-	845	-	nm	P _o = 1mW
Operation current	I _{op}	-	-	40	mA	P _o = 1mW V _{cc} =3V
Operation voltage	V _{op}	2.5	-	3.3	Volt	
Laser Beam spot size at 10m				<20mm		
Divergence angle				2 mrad		
Mean time to failure (MTTF) 25°C				>10000 hrs		

Outline dimensions (Units: mm)



Aperture Size : 1.3mm

Laser Safety Precautions

1. Do not look into the laser beam directly by eyes. The laser beam may cause severe damage to human eyes.
2. Optical Lens is made of plastic or glass. Do not contaminate lens by soiling, oil or chemical.

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

Contact

For US, Canada Ayase America Inc.
 For EU Ayase Europe GmbH
 For Japan Ayase Co., Ltd.

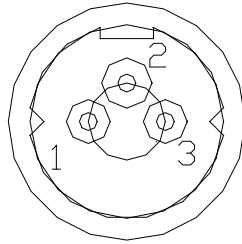
e-mail: info@ayaseamerica.com
 e-mail: info@ayase-europe.de
 e-mail: info@ayasecorporation.com

+1-408-988-5277
 +49-0-6122-533-811
 +81-45-532-9501

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PIN Assignment:

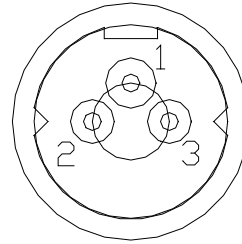


A type : Heat sink stand (-)

Pin 1 : Vcc

Pin 2 : GND

Pin 3 : NC (No external connection)

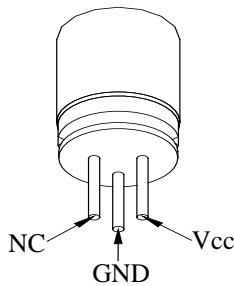


B type :Heat sink stand (+)

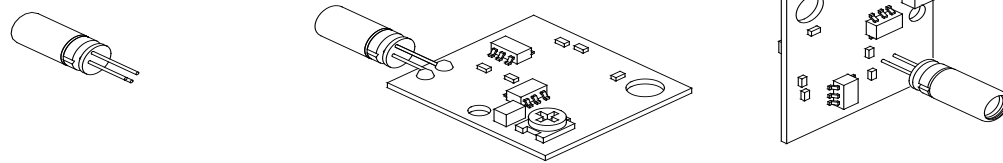
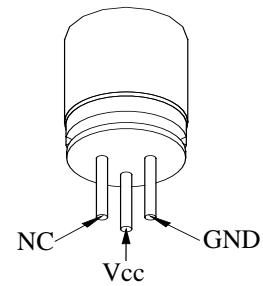
Instruction manual

1. DC Power connection mode 1

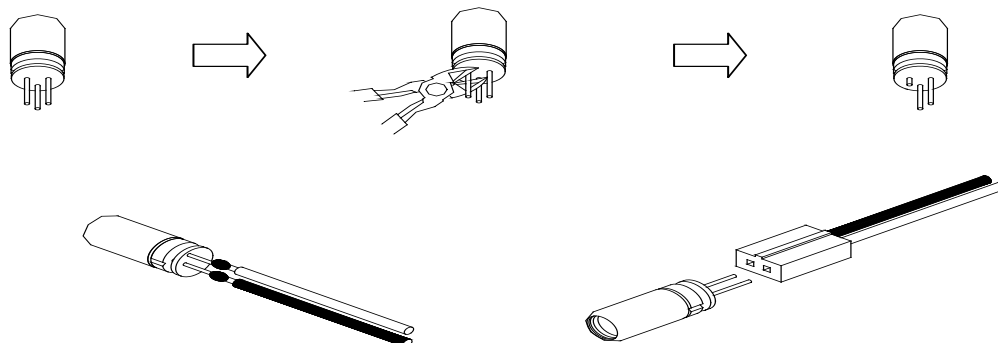
A type : Heat sink stand (-)



B type :Heat sink stand (+)



2. DC Power connection mode 2



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e-mail: info@ayaseamerica.com
e-mail: info@ayase-europe.de
e-mail: info@ayasecorporation.com

+1-408-988-5277
+49-0-6122-533-811
+81-45-532-9501

