



## APCD-850-06-C2



### TECHNICAL DATA

## IR diode laser module

APCD-850-06 is a multi purpose, **lowest cost**, small size infrared diode laser module featuring a acrylic housing with embedded lens, and integrated APC circuitry for long time stable operation

### Features

- Small size (Ø 6.5 x 9.0 mm)
- Fixfocus
- APC (auto power control) IC integrated
- Low current consumption
- Surge current protection
- Excellent beam quality

### Absolute Maximum Ratings ( $T_C=25^\circ\text{C}$ )

Item	Symbol	Value	Unit
Power Supply Voltage	$V_{CC}$	3.3	V
Output Power	$P_O$	<1	mW
Operating Temperature	$T_C$	0 ... +40	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	0 ... +60	$^\circ\text{C}$

### Specifications ( $T_C=25^\circ\text{C}$ , $P_O<1\text{mW}$ , $V_{CC}=3\text{V}$ )

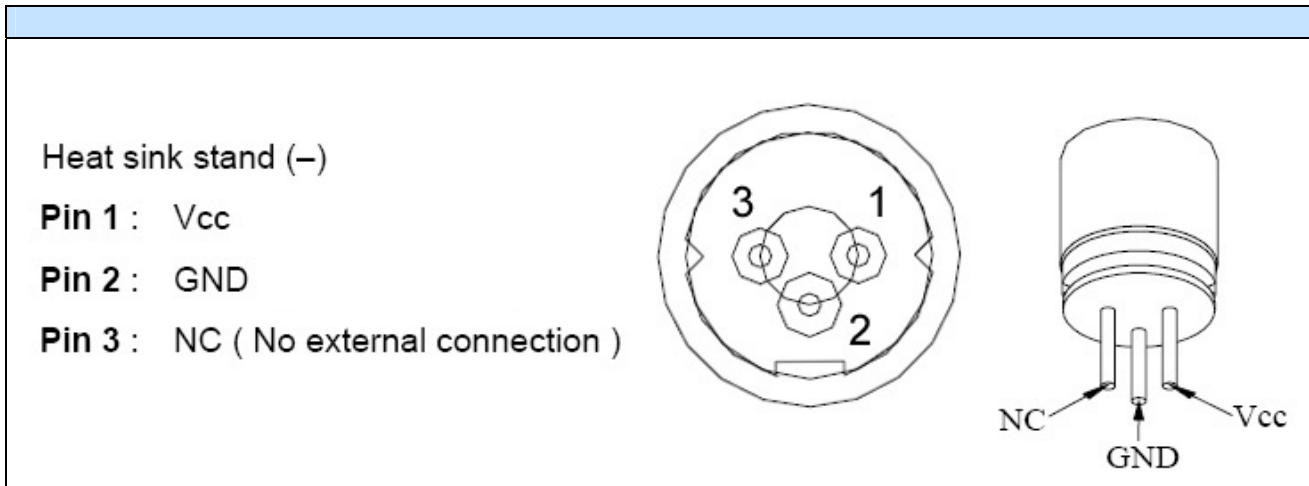
	Min.	Typ.	Max.	Unit
<b>Optical</b>				
Center Wavelength $\lambda_C$	-	845	-	nm
Output Power	-	-	1.0	mW
Divergence angle	2.0			mrad
Output Aperture	1.8			mm
Beam Size at 10M	<20			mm
<b>Electrical</b>				
Current draw	-	-	40	mA
Supply voltage	2.5	-	3.3	V
<b>General</b>				
Body	Acryl			
Dimensions	6.5 x 9.0			mm
Lens	Acryl			
Mean time to failure (MTTF)	>10000			h

The above specifications are for reference purpose only and subjected to change without prior notice



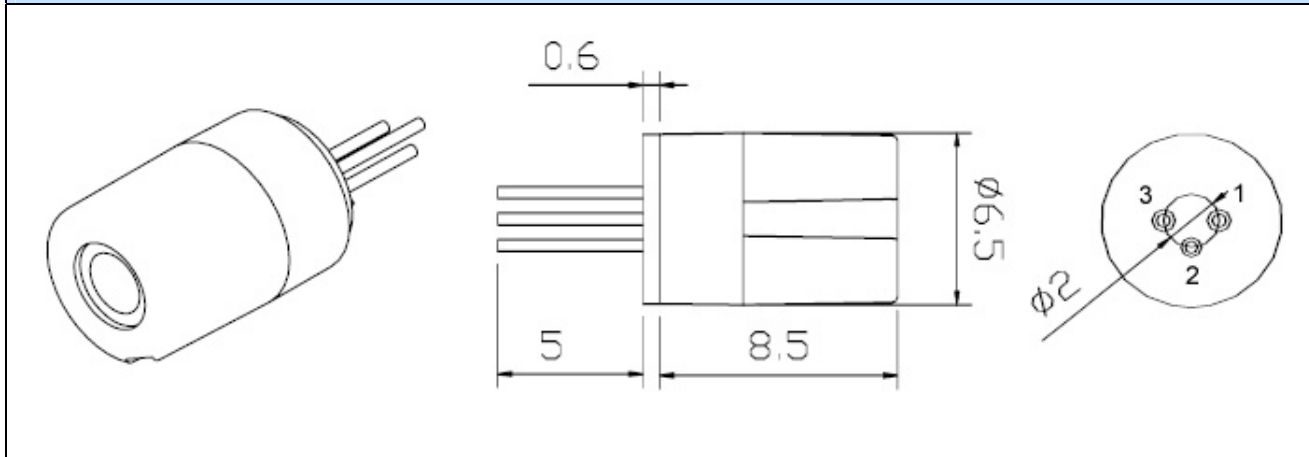


## Electrical Connection :



## Outline Dimension :

Unit: mm



## Cautions

1. Do not operate the device above the maximum rating condition, even momentarily. It may cause unexpected permanent damage to the device.
2. Semiconductor laser device is very sensitive to electrostatic discharge. High voltage spike current may change the characteristics of the device, or malfunction at any time during its service period. Therefore, proper measures for preventing electrostatic discharge are strongly recommended.
3. Do not look into the laser beam directly with the naked eyes. The laser beam may cause severe damage to human eyes.

