

# Fiber-coupled Laser Diode Module

## STC-LDM-976-140

### Typical Device Performance (25°C)

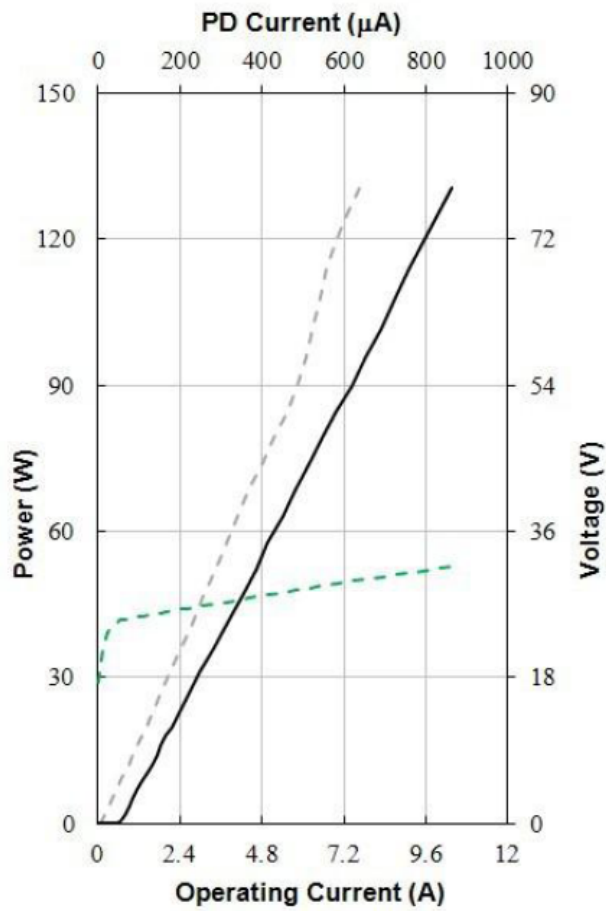
Optical	Unit	Typical Value
CW Output Power	W	140
Center Wavelength	nm	976±0.5
Wavelength Shift with Temperature	nm / °C	0.02
Feedback Protection (1030-1100nm)	dB	>40
Light within 0.17NA		95%
Electrical		
Threshold Current	A	0.6
Operating Current	A	10
Operating Voltage	V	31
Slope Efficiency	W / A	15
Power Conversion Efficiency	%	45
Fiber*		
Fiber Core Diameter	μm	105
Fiber Cladding Diameter	μm	125
Fiber Buffer Diameter	μm	250
Numerical Aperture	-	0.22
Fiber Length	m	1-5

\* Customized fiber and connector available.

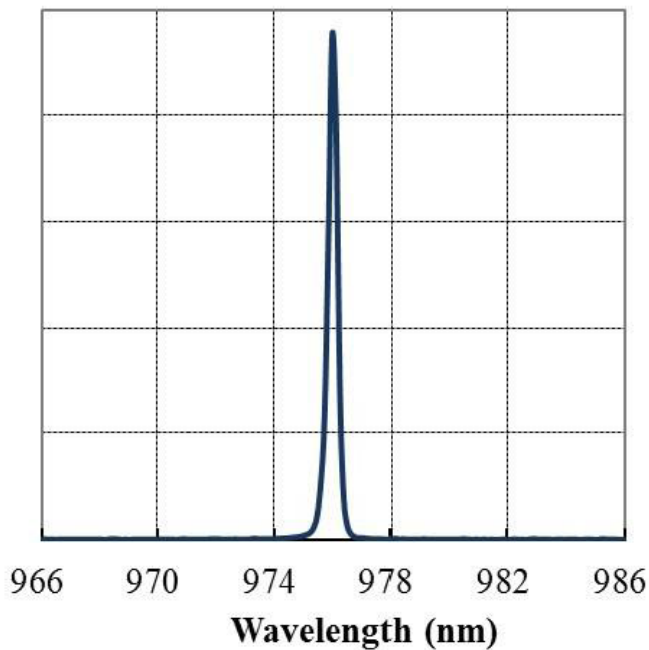
### Absolute Ratings

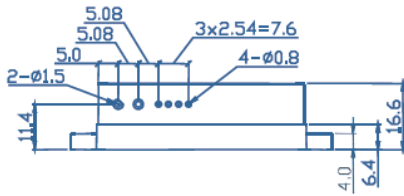
Parameter	Unit	Min	Max
Operating Temperature	°C	10	40
Operating Relative Humidity	%	-	75
Storage Temperature	°C	-20	80
Storage Relative Humidity	%	-	90
Lead Soldering Temperature, 10s max	°C	-	250

## Characteristics of 976nm-140W laser diode module (25°C)



## Typical spectrum of 976nm-140W laser diode module (25°C)





Pin-Out Assignment	
Pin	Function
1	LD (+)
2	LD (-)
3	PD(N)
4	PD(P)
5	Thermistor
6	Thermistor