

# Fiber-coupled Laser Diode Module

## STC-LDM-976-100

### Typical Device Performance (25°C)

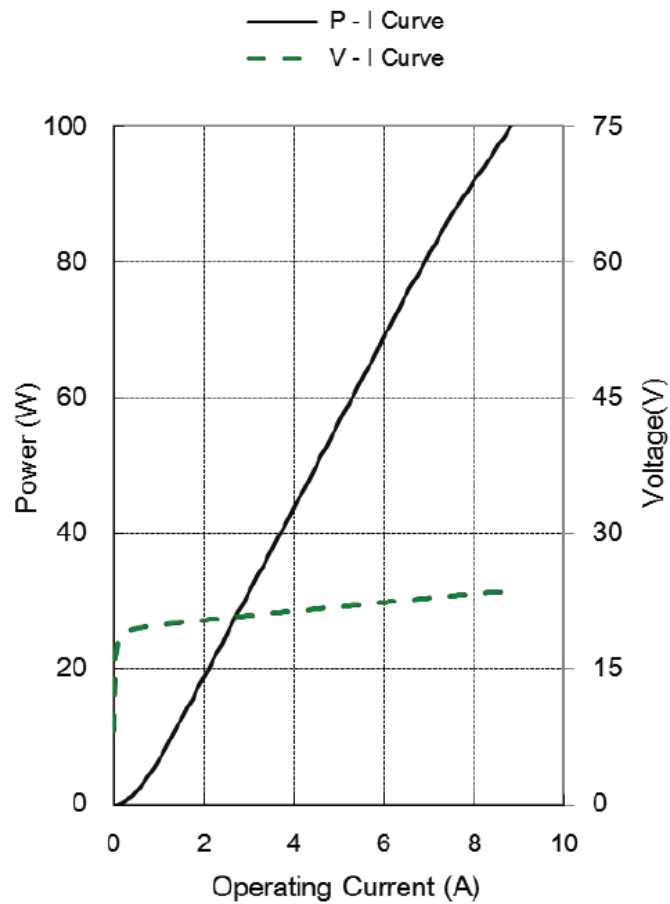
Optical	Unit	Typical Value
CW Output Power	W	100
Center Wavelength	nm	976±0.5
Spectral Width (90% of Power)	nm	<0.5
Wavelength Shift with Temperature	nm / °C	0.02
Wavelength Shift with Current	nm / A	0.05
Feedback Protection (1030-1100nm)	dB	>40
<b>Electrical</b>		
Threshold Current	A	0.5
Operating Current	A	9.0
Operating Voltage	V	24.5
Slope Efficiency	W / A	11.8
Power Conversion Efficiency	%	45
<b>Fiber*</b>		
Fiber Core Diameter	μm	105
Fiber Cladding Diameter	μm	125
Fiber Buffer Diameter	μm	250
Numerical Aperture	-	0.22
Fiber Length	m	1.0

\* Customized fiber and connector available.

### Absolute Ratings

	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-100W laser diode module (25°C)



## Typical spectrum of 976nm-100W laser diode module (25°C)

