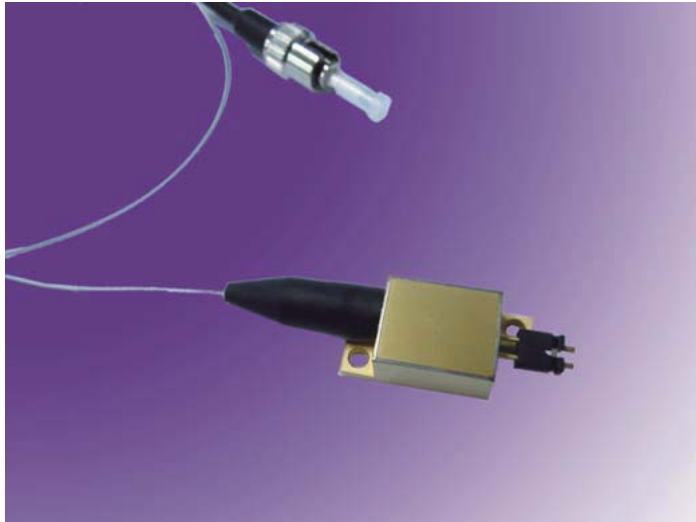


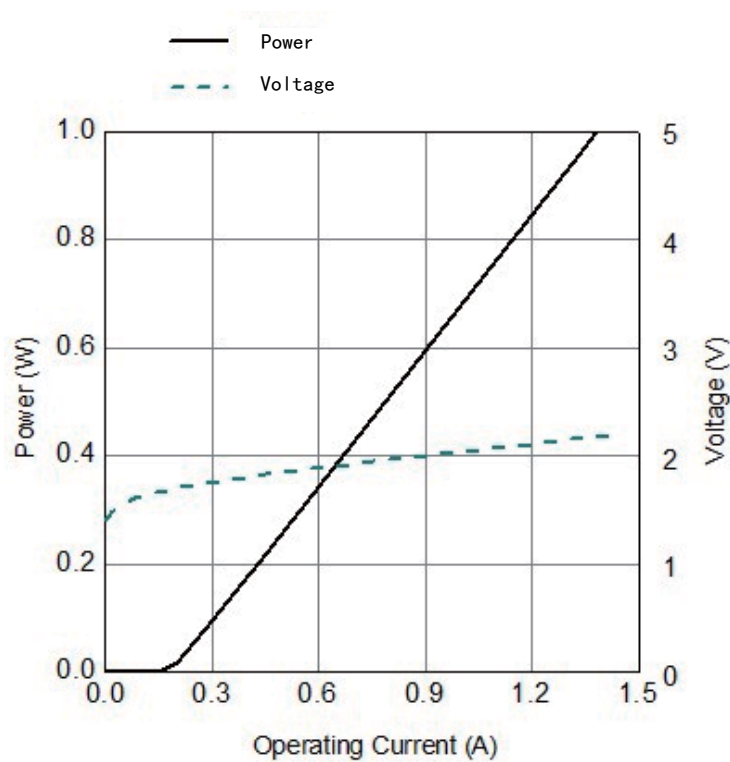
830nm 1W Laser Diode Module

G830-1WF-02BCK



Features
Output power: 1W
Wavelength: 830nm
Fiber core diameter: 60 μ m or 50 μ m
0.14NA
Application
Printing

830nm Characteristics (25°C)



Typical Device Performance (25°C)

Parameter	Symbol	Typical	Unit	
		G830-1WF-02BCK		
Optical	CW Output Power	p_{op}	1	W
	Center Wavelength	λ_c	830 ± 10	nm
	Spectral Width (90% of Power)	$\Delta \lambda$	<3	nm
	Wavelength Shift with Temperature	$\Delta \lambda / \Delta T$	0.3	nm/°C
Electrical	Threshold Current	I_{th}	0.2	A
	Operating Current	I_{op}	1.4	A
	Operating Voltage	V_{op}	2.1	V
	Slope Efficiency	η_{es}	0.8	W/A
Fiber	Fiber Core Diameter	d_{core}	50 or 60	μm
	Fiber Cladding Diameter	d_{clad}	125	μm
	Fiber Buffer Diameter	d_{buffer}	250	μm
	Numerical Aperture	NA	0.14	-
	Connector	-	ST	-

Other Parameters

Parameter	Operating Temperature /°C	Storage Temperature /°C	Storage Relative Humidity /%	Lead Soldering Temperature, 10s max/ °C	MTBF/h
Min	10	-20	-	-	10000
Max	30	80	90	250	-

Package Dimensions (mm)

Pin	Function
1	Laser (+)
2	Laser (-)

