



## 830nm Laser Diode Modules

### G830-1WF-02BCK



#### Features:

**Output Power : 1W**

**Wavelength: 830nm**

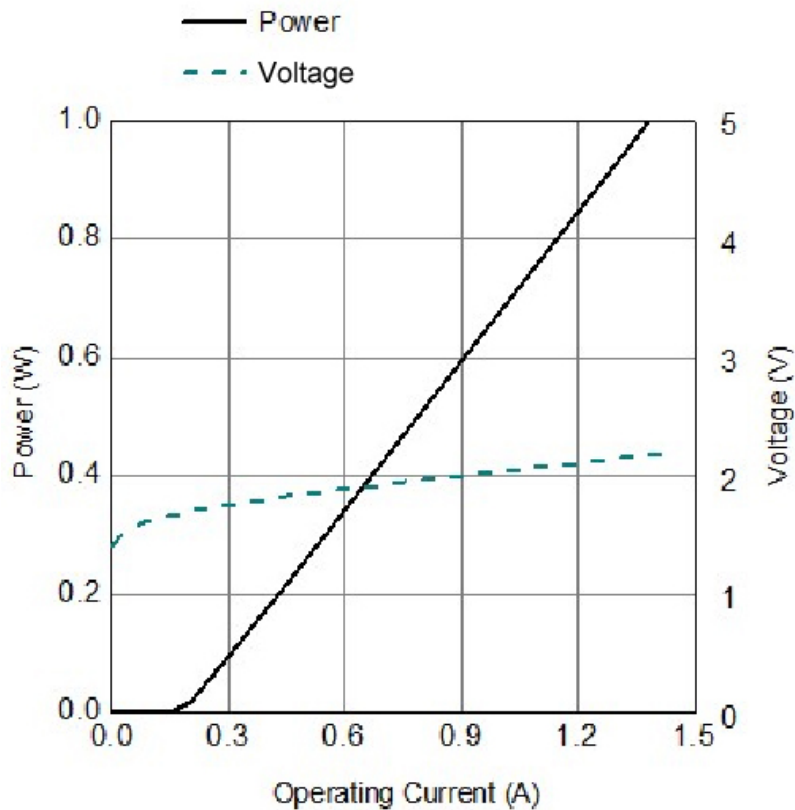
**Fiber core diameter: 60 $\mu$ m**

**0.14NA**

#### Applications

**Printing**

### 830nm Characteristics (25°C)



## Typical Device Performance (25°C)

Parameter	Symbol	Typical Value	Unit	
		G830-1WF-02BCK		
Optical	CW Output Power	$P_{op}$	1	W
	Center Wavelength	$\lambda_c$	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	$\eta_{es}$	0.8	W/A
Fiber	Core Diameter	$d_{core}$	60	μm
	Cladding Diameter	$d_{clad}$	125	μm
	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 (-)

