



## RFD520-1-3

- Green Direct Emitting Diode Laser Module
- 520 nm, 1 mW
- Wide Operating Temperature
- Quasi Continuous Wave Operation
- Driver included



### Description

RFD520-1-3 is a Laser diode module emitting at 520 nm with rated output power of 1 mW, utilizing a **direct emitting green laser diode**. It features **wide operating temperature up to 60°C** and low current draw. It comes in black anodized aluminum housing with fix collimated glass lens and **integrated 3VDC driving electronics** for convenient operation

### Specifications

Parameter	Values			Unit
	Min.	Typ.	Max.	
Wavelength	510	520	530	nm
Output Power		1		mW
Laser Class		3R		
Output Aperture		2 x 4		mm
Beam Divergence		0.6		mrad
Beam Character		Elliptical		
<b>Supply Voltage</b>		<b>3</b>		<b>VDC</b>
Operating Current		35		mA
Operating Temperature	-10		+60	°C
Storage Temperature	-40		+85	°C
Material Body	Aluminum, black anodized			
Material Lens	Glass			
Dimensions	Ø 8 x 36			mm
Leads	0.25 mm <sup>2</sup> x 100 mm			mm
MTTF	6000			h



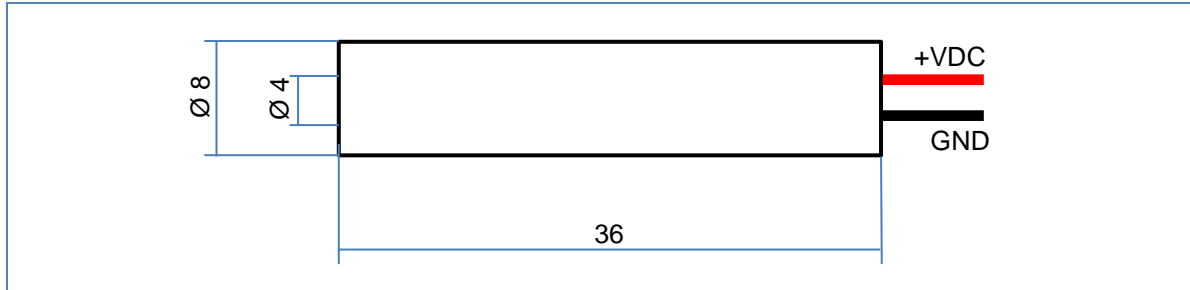
### Electrical Connection

Lead	Description
Red	+VDC
Black	GND



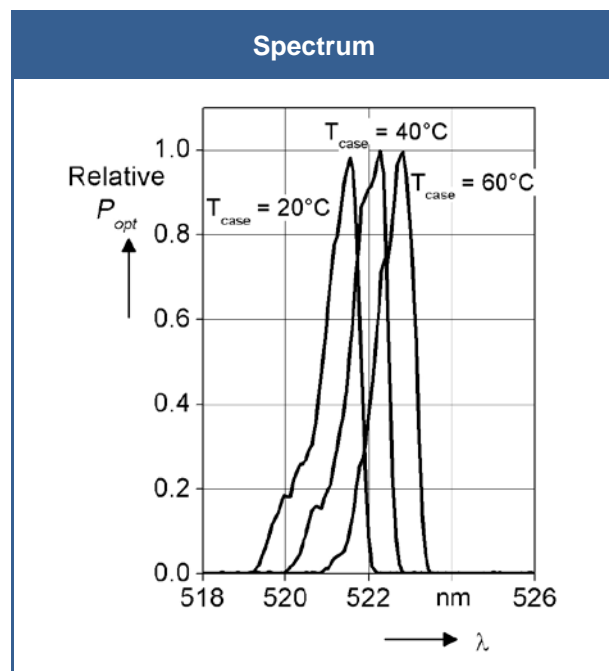
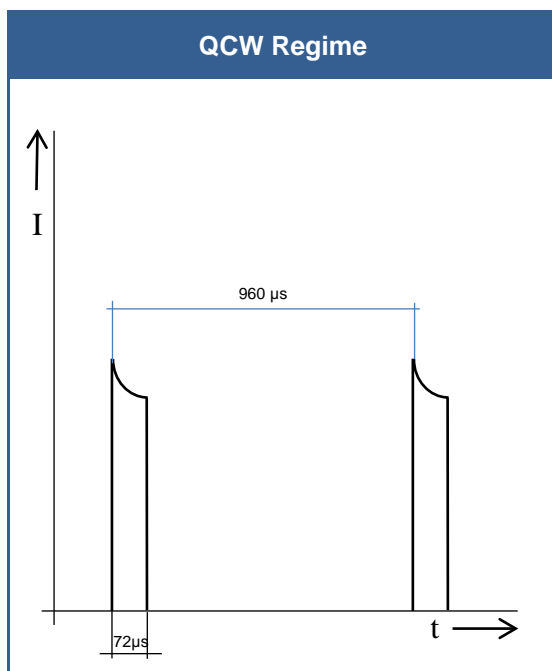


## Drawing



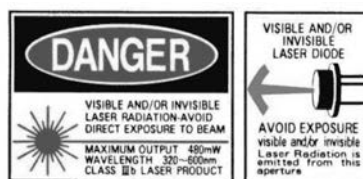
All dimensions in mm

## Performance Characteristics



## Safety Advice

This laser module emits highly concentrated ultra violet light which can be **hazardous to the human eye**. This module is classified as **Class 3B laser product** according to **IEC 60825-1** and **21 CFR Part 1040.10 Safety Standards**. Actual laser light emitted and precautions necessary strongly depend on mode of operation.



This product is comply with 21 CFR Part 1040.10