

LD808-SEV500



Volume-Holographic-Grating (VHG) Wavelength-Stabilized Single-Frequency Laser DIODE

S/N: 808WK03.B02

Wavelength: 808.3nm

Test Date: 9/28/2017



Diode Package: TO 9 mm

Tested By: SooAn

QA: Pass

Summary of Test Data (CW)

Parameter	Symbol	Value	Unit
Operating Current@500mW,25.0°C	I_{op}	780.26	mA
Voltage@500mW,25.0°C	V_F	2.18	V
Side-Mode Suppression Ratio@500mW,25.0°C	SMSR	41.4	dB
Threshold Current@25.0°C	I_{th}	132.0	mA
Slop Efficiency@25.0°C	$\Delta P/\Delta I$	0.80	W/A

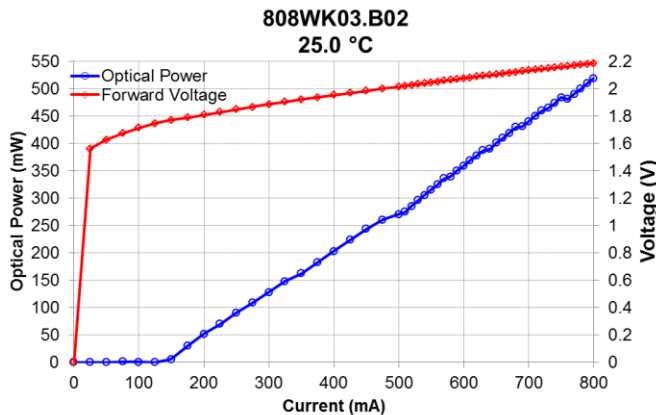
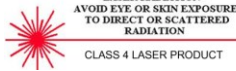
Absolute Maximum Ratings

Parameter	Ratings
Laser Diode Current*	800
Optical Output Power*	520
LD Reverse Voltage*	2
Storage Temperature	-40~+80
Case Temperature	-20~+40

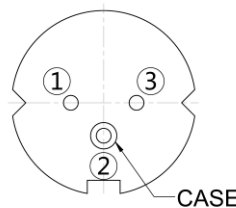
* CW



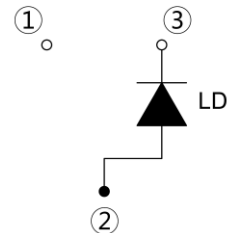
CAUTION- use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. There are no user serviceable parts in this product. When proper power is applied to this product, Laser radiation will be emitted from TO-window.



Diode Bottom View



Pin Code E



Important Notes:

1. The maximum ratings mean the limitation over which the laser should not be operated even instant time.
2. To protect the laser diode from damage due to static electricity (ESD), please follow proper ESD handling precautions.
3. To ensure safe operation use only with a suitable power source that complies with the pertinent requirements for laser systems as specified in IEC-60825-1 "Safety of Laser Products."



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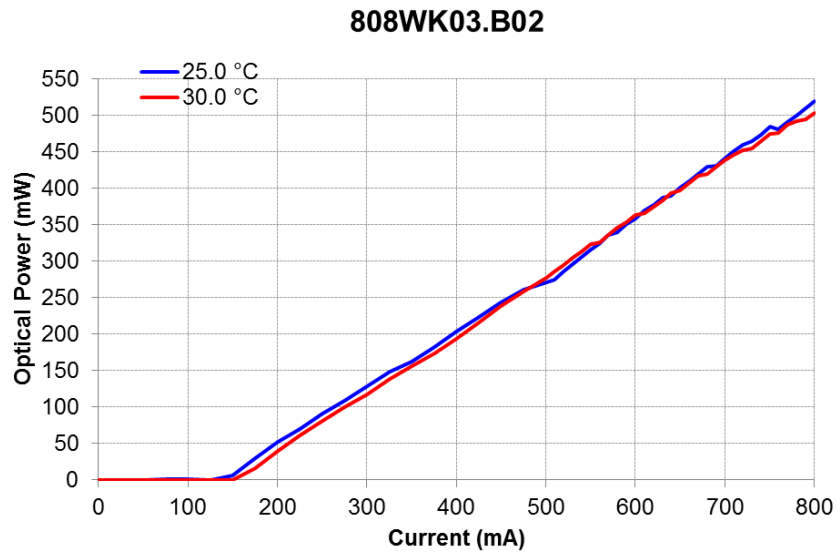


Figure 2: Output Power vs. Current over wavelength stabilized temperature range.

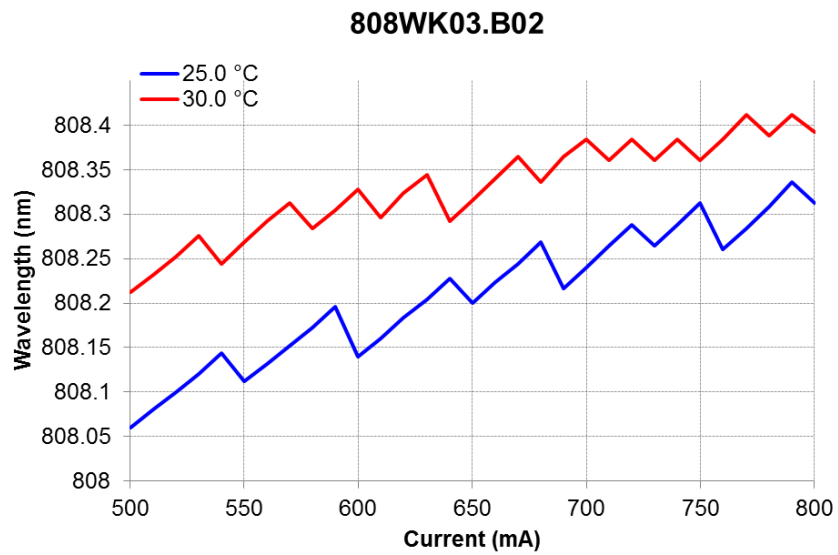


Figure 3: Wavelength vs. Current over wavelength stabilized temperature range.
 Measured with Yokogawa AQ6370C, Resolution Bandwidth = 0.02nm.

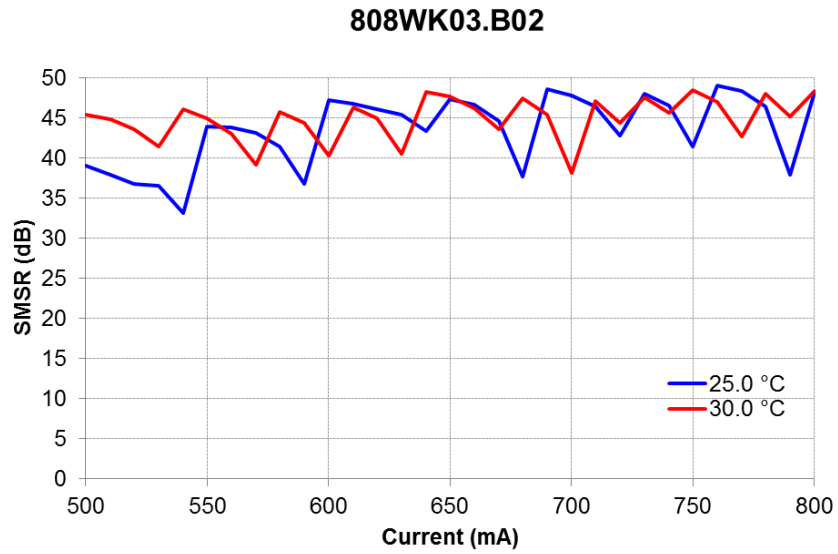


Figure 4: Side-Mode Suppression Ratio vs. Current over wavelength stabilized temperature range. Measured with Yokogawa AQ6370C, Resolution Bandwidth = 0.02nm.

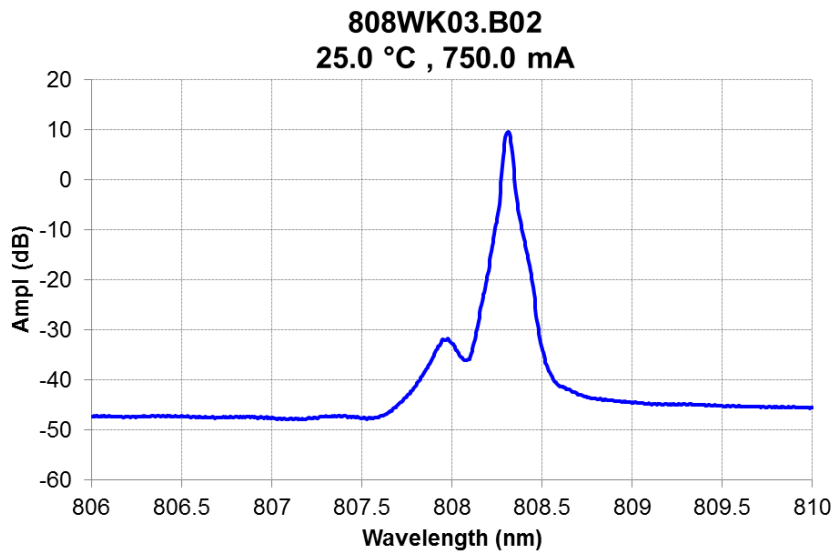


Figure 5: Optical Spectrum. Measured with Yokogawa AQ6370C, Resolution Bandwidth = 0.02nm.