



**Model Number: APS-940nm-1500mW-MTM-9.0mm-CC**

**APS 1500 mW 940 nm Laser Diode Module With Adjustable Aspheric Collimating Lens**

**Absolute Maximum Ratings at 25 °C**

Item	Ratings	Unit
CW Output Power	1500	mW
Laser Diode Reverse Voltage	2	V
Maximum Operating Current	2500	mA
Operating Temperature	-20 to 50	°C
Storage Temperature	-40 to 80	°C

- Simple Integrated Package
- Excellent Diode Heatsinking
- Small Footprint
- Simple Connection With Two Power Leads
- Adjustable Collimating Lens
- Lightweight, Rugged
- Precision Machined

**Applications: Pointing, Illumination**



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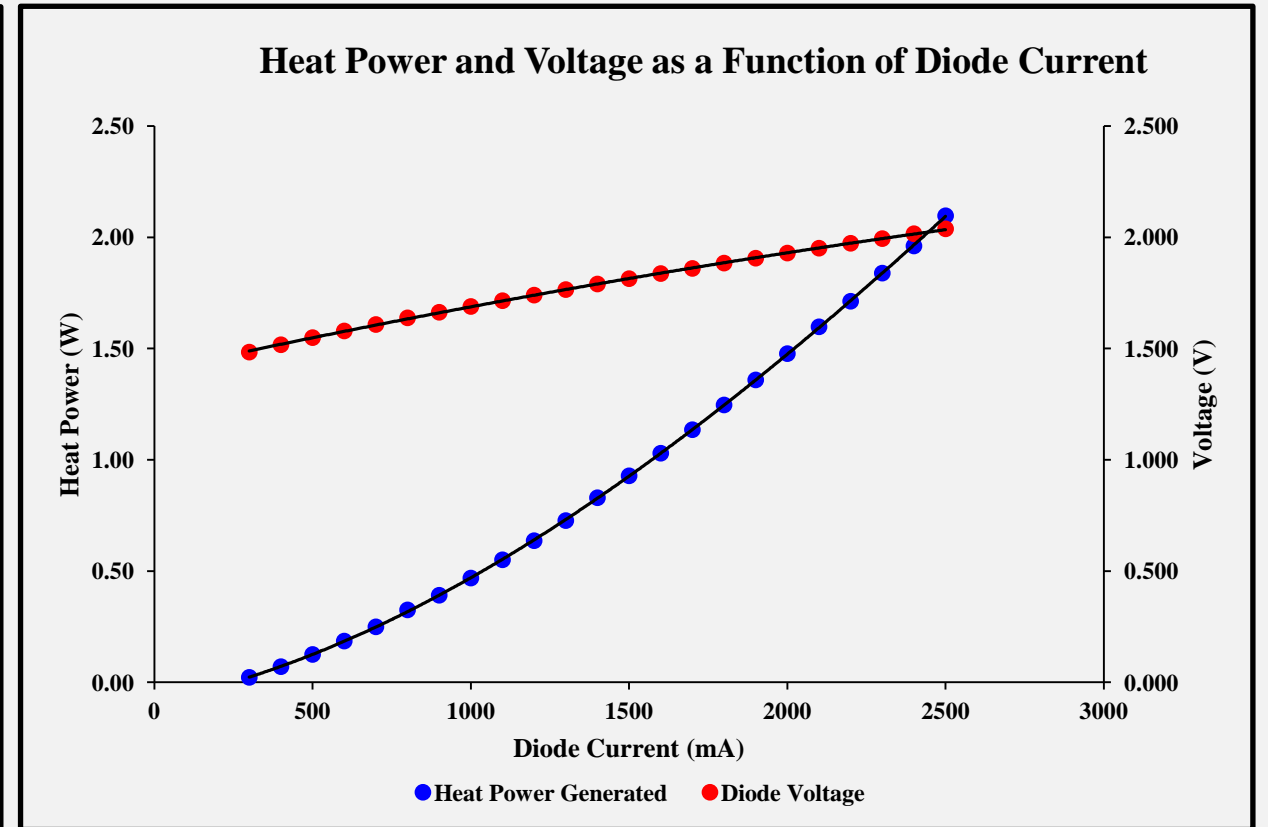
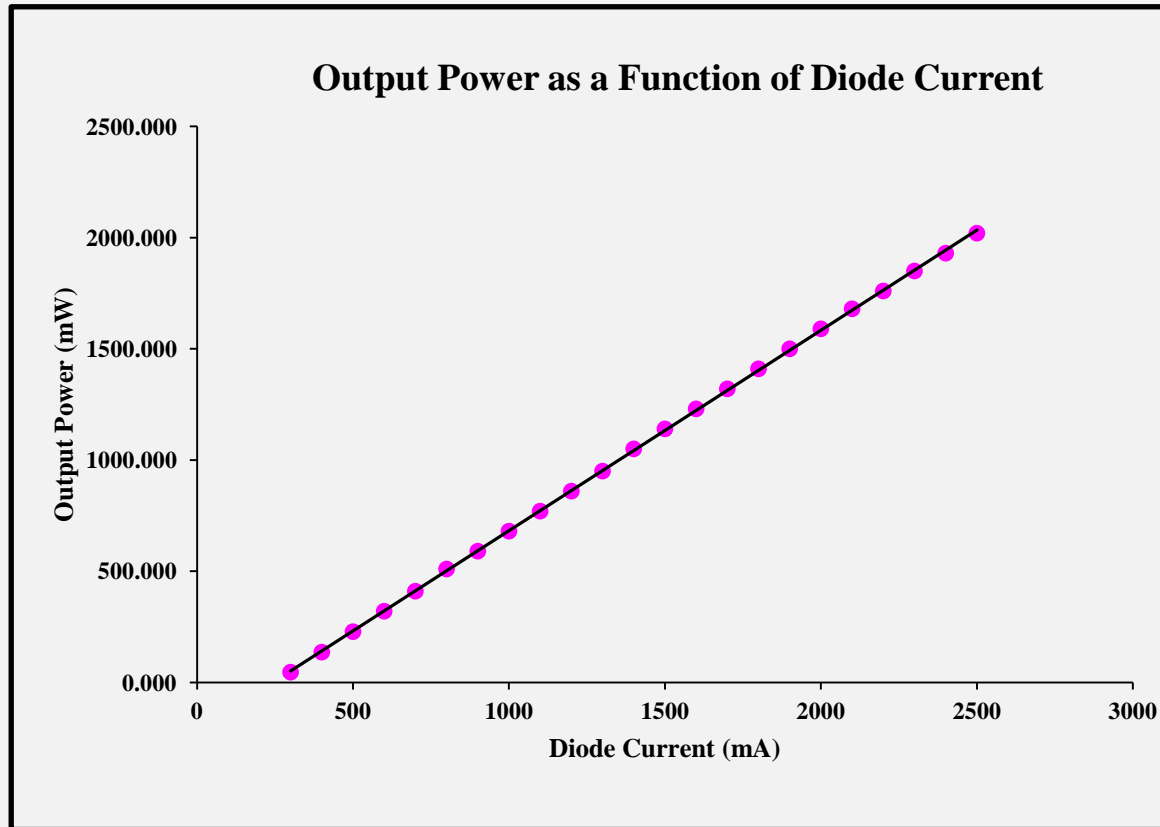
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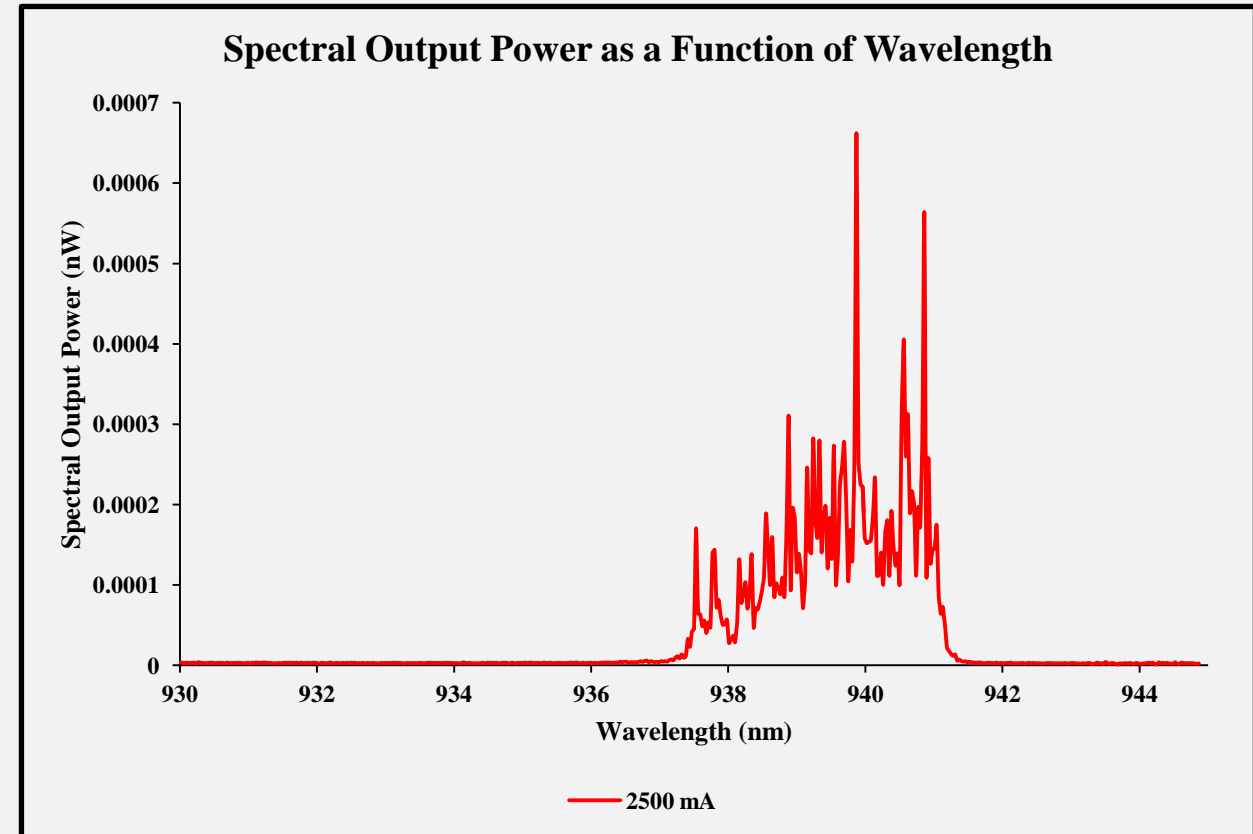
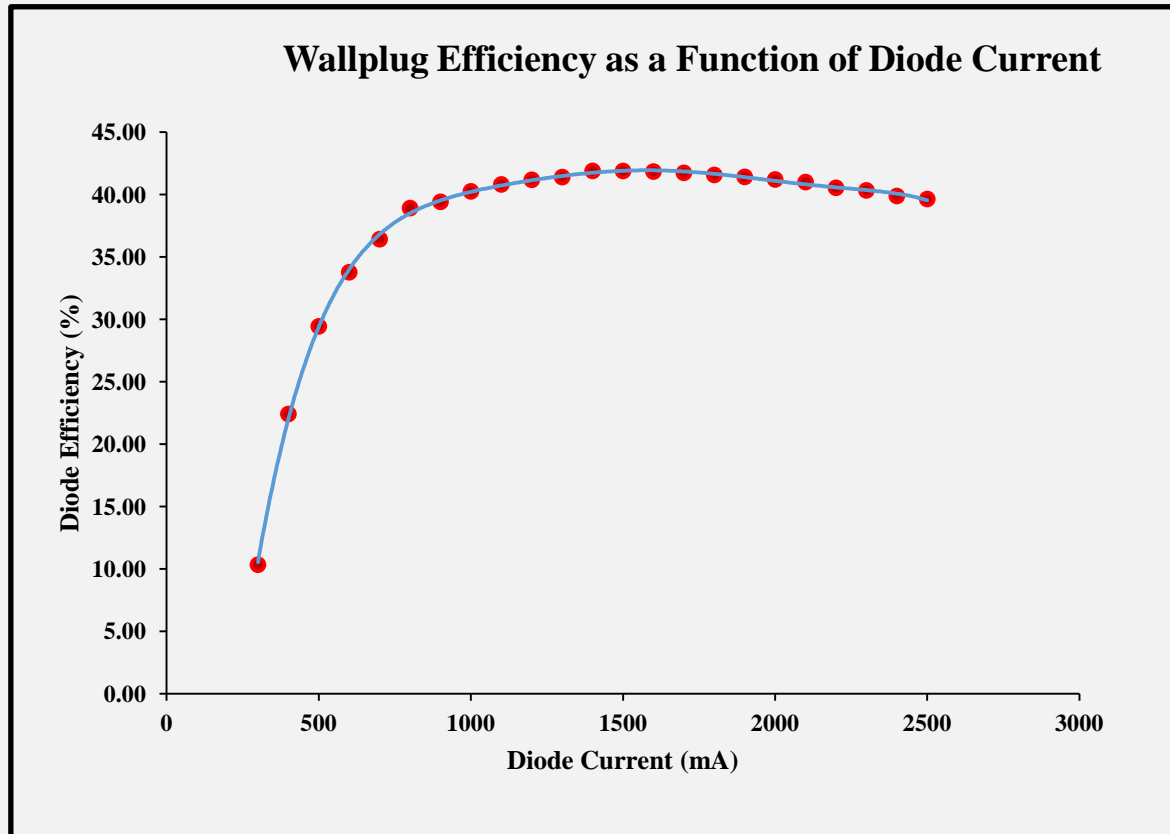
**Optical and Electrical Characteristics at 25 °C**

Parameter	Min	Typical	Max	Units	Test Condition
Threshold Current	-	400	600	mA	-
Operating Current	-	2100	2500	mA	$P_o = 1500$ mW
Operating Voltage	-	1.9	2.2	V	$P_o = 1500$ mW
Fast Axis Beam Divergence	-	58	63	°	$P_o = 1500$ mW 1/e <sup>2</sup> Full Angle
Slow Axis Beam Divergence	-	16	22	°	$P_o = 1500$ mW 1/e <sup>2</sup> Full Angle
Lasing Wavelength	935	940	945	nm	$P_o = 1500$ mW
Transverse Mode	MTM	MTM	MTM	-	All Currents
Polarization TE	-	-	-	-	Horizontal

## Module Experimental Data

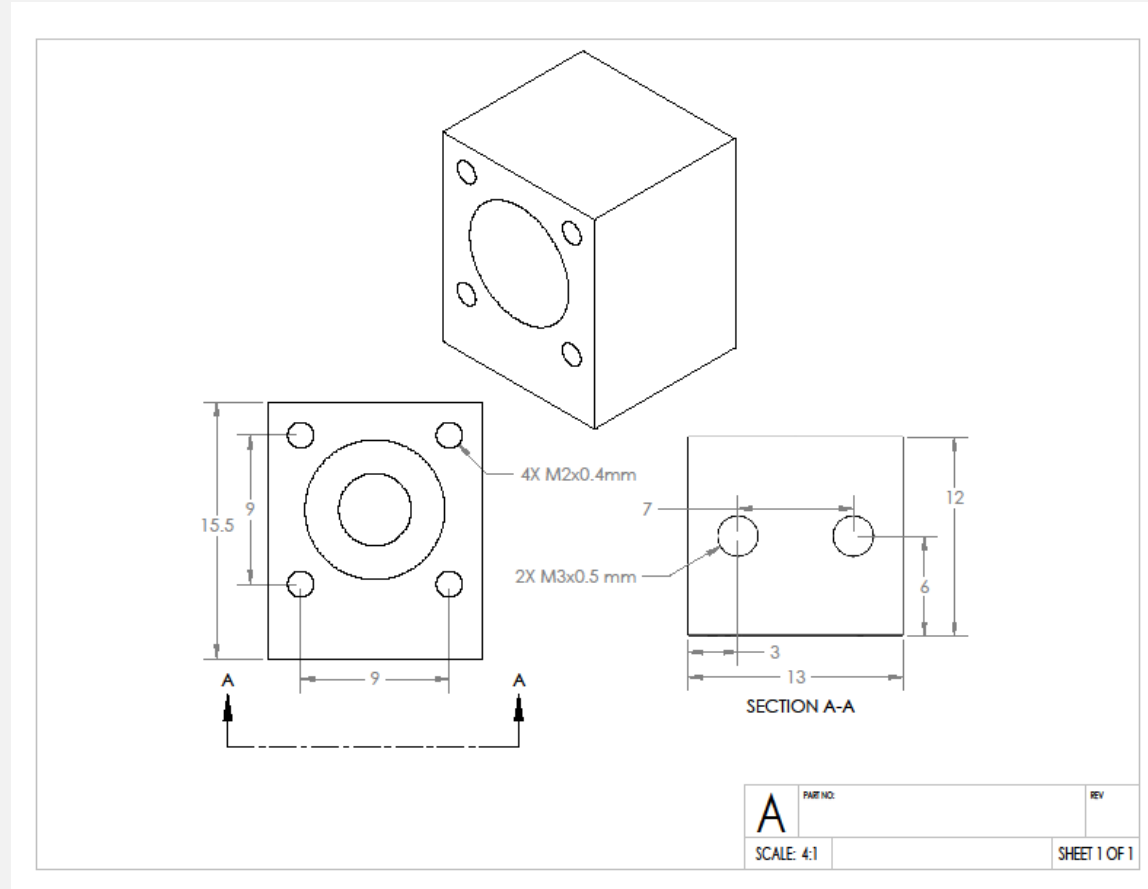


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## Module Dimensions and Mounting Screws





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## **Laser Safety Warnings**

- **This OEM Micro-Module is meant for integration into other systems, and as such is not CDRH compliant.**
- **This Micro-Module is a Class 4 laser product.**
- **Always use laser safety glasses with sufficient Neutral Density at the operating wavelength of 940 nm to protect your eyes.**
- **Skin exposure to this laser product should be avoided.**