



Model Number: APS-525nm-1000mW-MTM-9.0mm-CC-Z-Cu

APS 1000 mW 525 nm Copper Laser Diode Module With Adjustable Aspheric Collimating Lens

Absolute Maximum Ratings at 25 °C

Item	Ratings	Unit
CW Output Power	1000	mW
Laser Diode Reverse Current	85	mA
Maximum Operating Current	1800	mA
Operating Temperature	20 to 30	°C
Storage Temperature	-40 to 85	°C

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

Applications: Illumination, Laser Dazzlers and Flashlights, Laser Projection and Shows

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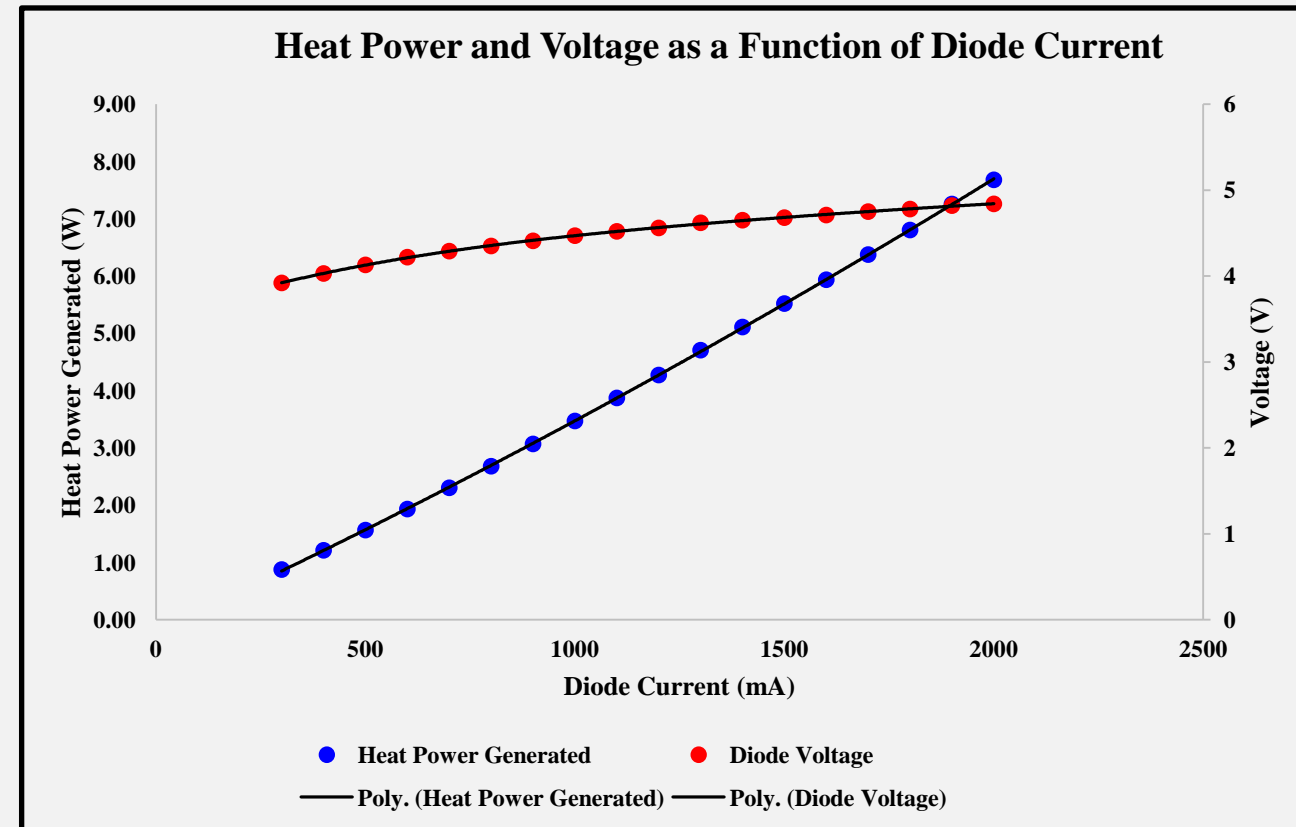
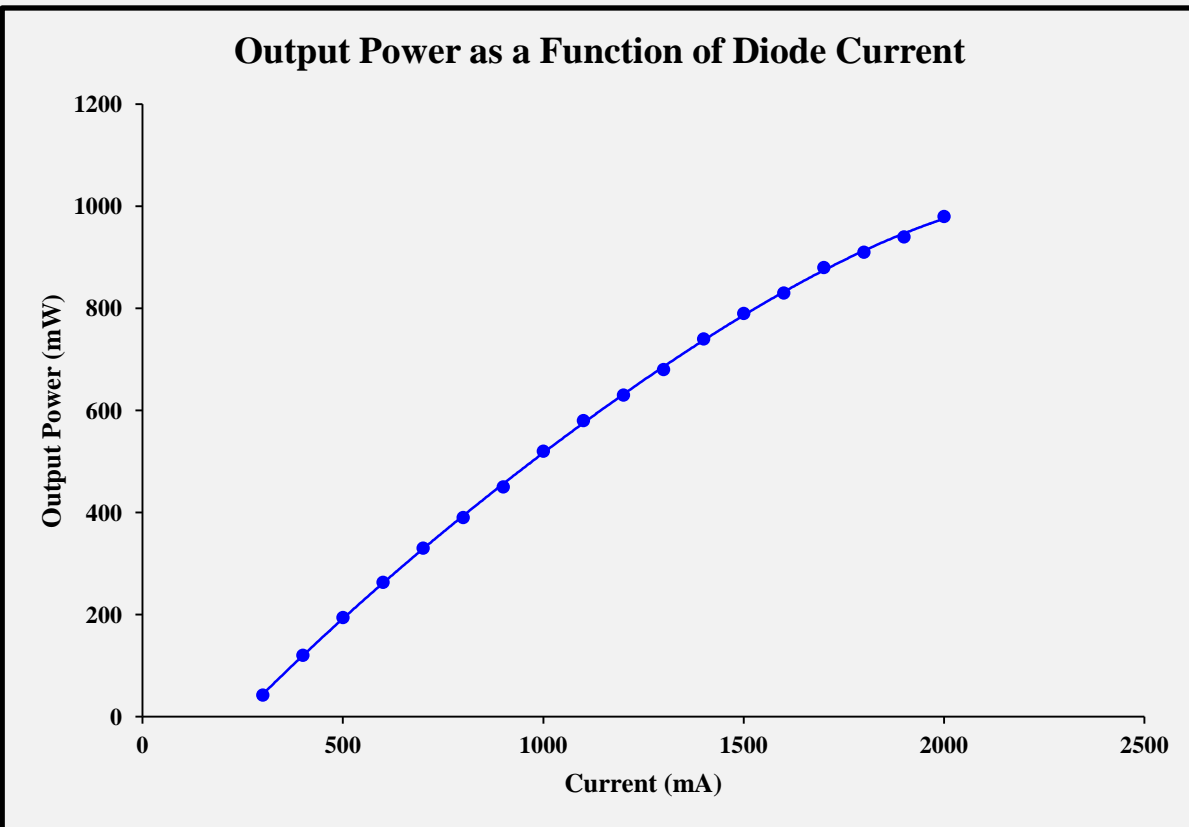


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Optical and Electrical Characteristics at 25 °C

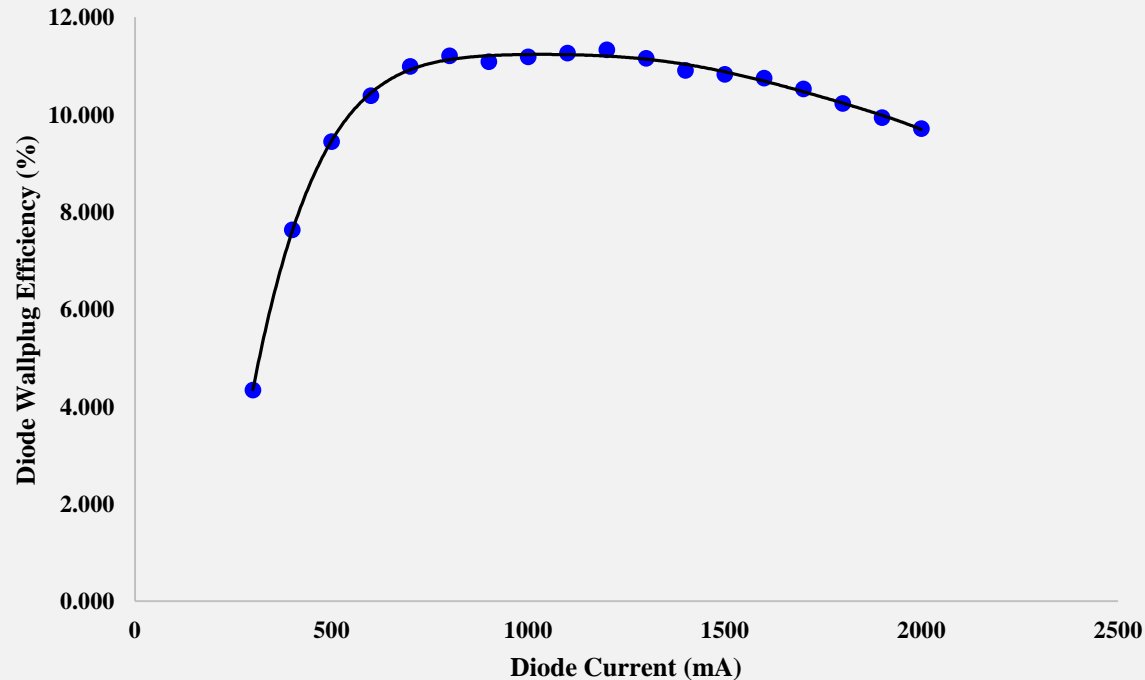
Parameter	Min	Typical	Max	Units	Test Condition
Threshold Current	150	300	500	mA	-
Operating Current	-	1600	1800	mA	$P_o = 1000 \text{ mW}$
Operating Voltage	4.0	4.7	6.0	V	$P_o = 1000 \text{ mW}$
Fast Axis Beam Divergence	35	46	55	°	$P_o = 1000 \text{ mW}$ 1/e ² Full Angle
Slow Axis Beam Divergence	5	11	25	°	$P_o = 1000 \text{ mW}$ 1/e ² Full Angle
Lasing Wavelength	515	525	-	nm	$P_o = 1000 \text{ mW}$
Transverse Mode	MTM	MTM	MTM	-	All Currents
Polarization TE	-	-	-	-	Horizontal

Module Experimental Data

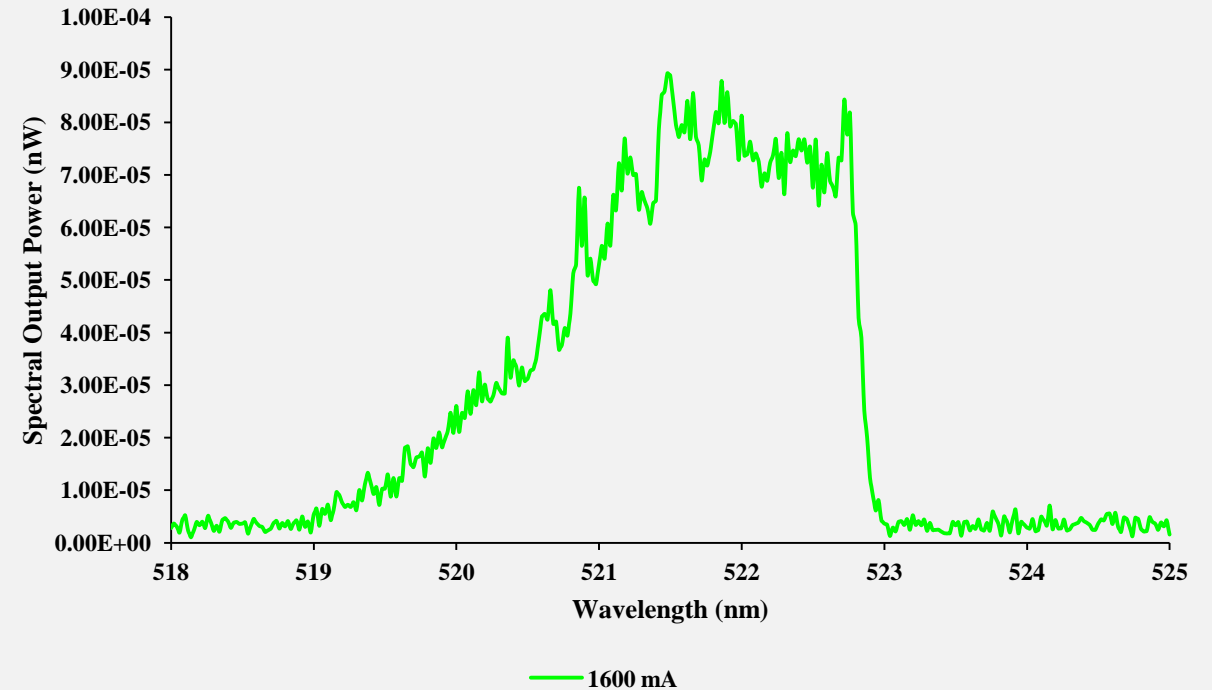


Module Experimental Data

Wallplug Efficiency as a Function of Diode Current

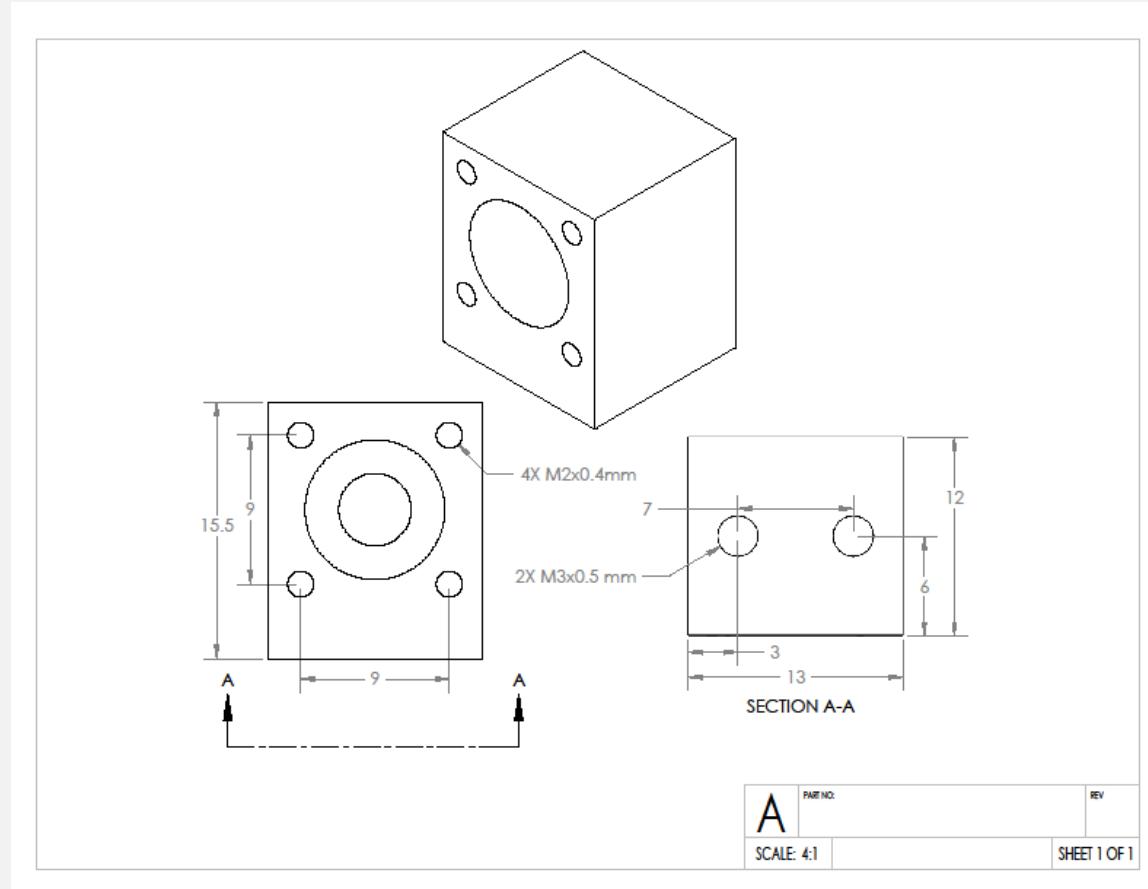


Spectral Output Power as a Function of Wavelength



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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 525 nm to protect your eyes.**
- **Skin exposure to this laser product should be avoided.**