

Green Laser Module

AML-53041XX-01

6-2D-LM53-001 Rev.00

★532nm 4mW 50°C Green Laser Module

Features

1. Wide operation temperature rang.
2. Stable output power.

Applications

1. General purpose green laser light source
2. Industrial laser markers / measuring instruments
3. Laser professional leveler

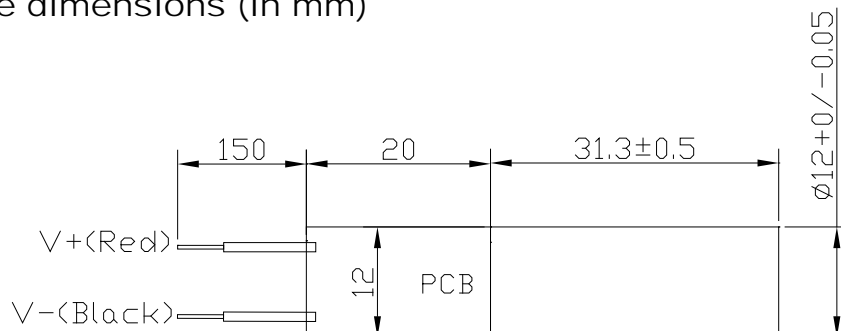
Absolute maximum ratings

Item	Symbol	Rating	Unit
Power supply voltage	V_{cc}	5	V
Laser Module optical output power	P_o	5	mW
Operation temperature	T_{opr}	10~50	°C
Storage temperature	T_{stg}	-10~70	°C

Electrical and optical characteristics ($T_c=25^\circ\text{C}$)

Item	Symbol	Min.	Typ.	Max	Unit	Condition
Wavelength	λ	-	532	-	nm	$P_o=4\text{mW}$
Output power	P_{out}	-	-	5	mW	$V_{cc}=3\text{V}$
Operation current	I_{op}	-	-	500	mA	$P_o=4\text{mW}, V_{cc}=3\text{V}$
Operation voltage	V_{op}	3	-	5	V	
Divergence angle		< 1.2 mrad				
Laser beam mode		TEM_{00}				
Laser beam diameter		< 2 mm / at aperture				
Power stability		< $\pm 5\%$ (30min @ constant temperature) < $\pm 25\%$ (within operating temperature range)				
Mean time to failure (MTTF) 4 mW 25°C		> 5,000hrs				

Outline dimensions (in mm)



* For reference only. Contents above are subject to change without notice.

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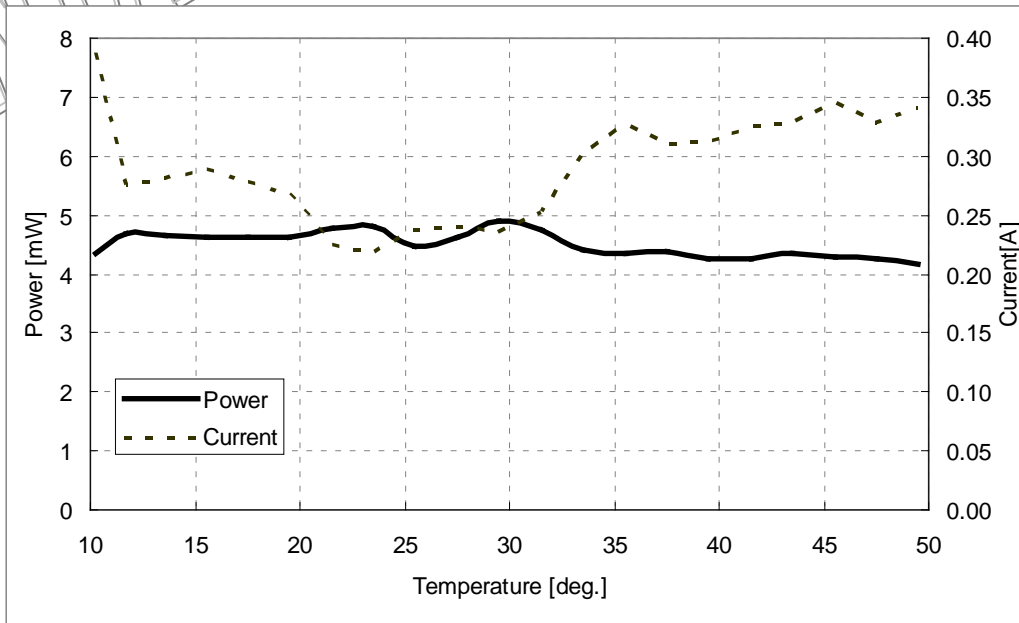
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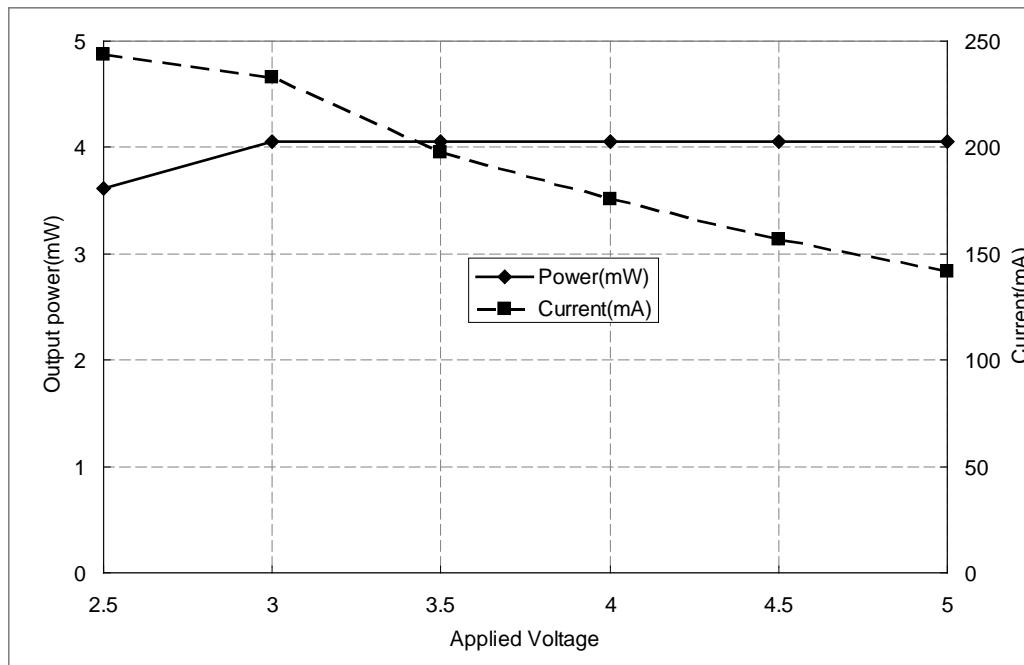
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Characteristic curve

● Typical temperature performance



● Typical applied voltage performance



Laser Safety Precautions

1. Do not look into the laser beam directly with naked eyes. The laser beam may cause severe damages to human eyes.
2. Optical lens is made of plastic. Keep the lens away from contaminants such as particles, oil and chemicals.

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