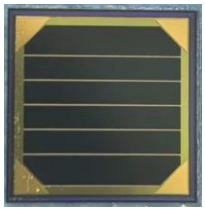
Data Sheet



MT018-808-600mW-DIE

Optical Power Converter

Mechanical Dimensions

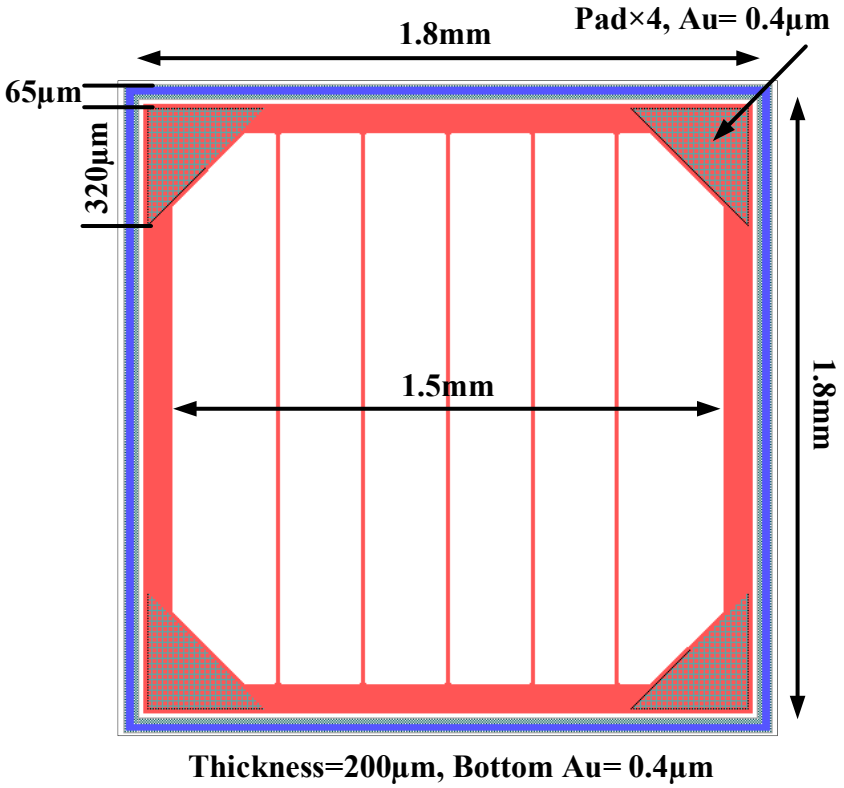


Figure 1: MT018-808-600mW-DIE

NOTE: The top side is the negative output and the bottom side is the positive output.

Absolute Maximum Ratings

Absolute maximum ratings are those values beyond which damage to the device can occur if these limits are exceeded other than for a short period of time.

Parameter	Symbol	Min.	Typical	Max.	Unit
Storage Temperature	T_S	–40	25	85	°C
Operating Case Temperature	T_C	–40	—	85	°C
Maximum Optical Input Power	$P_{opt\ IN}$	—	—	1.2	W

Operating Characteristics

All specified parameters are valid for operations at a case temperature of 25°C.

Parameter	Symbol	Min.	Typical	Max.	Unit
Recommended optical input spectrum range	λ_{IN}	800	808	840	nm
For Optical Power In = 0.5W					
P_{mpp}	P_{OUT}		0.274		W
Output Voltage at P_{mpp}	V_{OUT}	—	6.08	—	V
Output Current at P_{mpp}	I_{OUT}	—	0.045	—	A
For Optical Power In = 1.0W					
P_{mpp}	P_{OUT}	—	0.578	—	W
Output Voltage at P_{mpp}	V_{OUT}	—	6.08	—	V
Output Current at P_{mpp}	I_{OUT}		0.095		A

Typical Characteristics

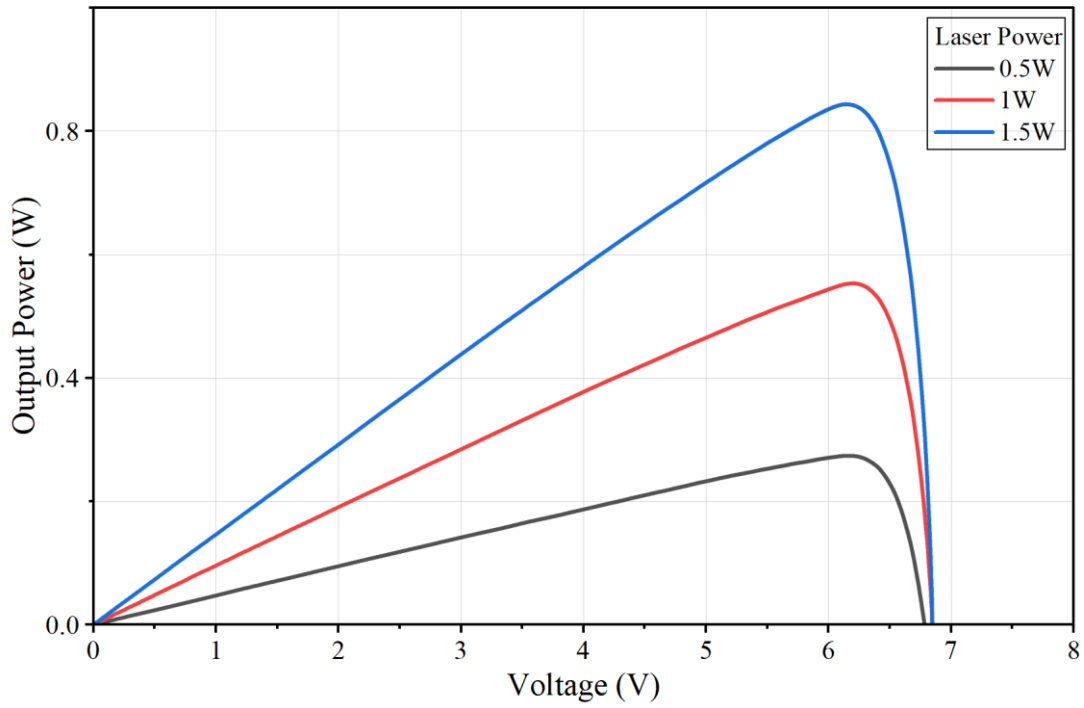


Figure 2: PV curve of MT018-808-600mW-DIE

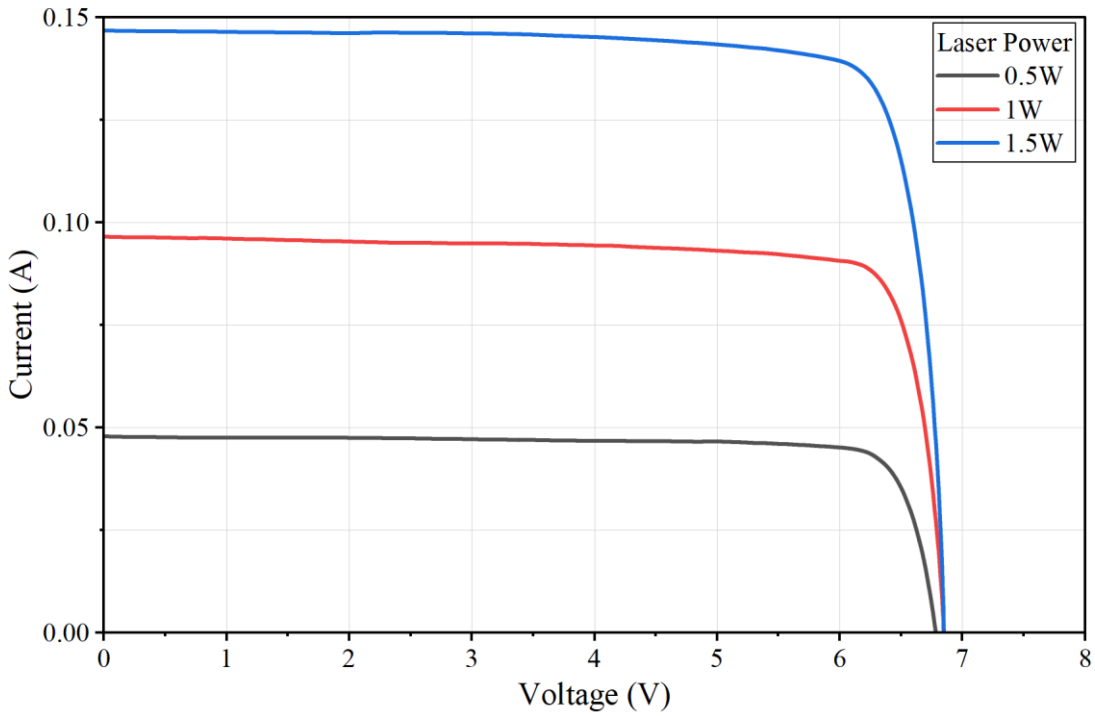


Figure 3: IV curve of MT018-808-600mW-DIE