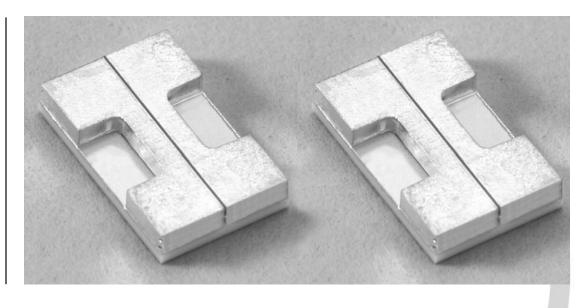
# **100W QCW Laser Diode Array Submodule** Part Number: ASM01P100

### SILVER BULLET<sup>™</sup>

- · Packaged Laser Diode Array
- Easily Soldered to a Heat Exchanger
- Available Wavelengths (790-1550nm)



#### OPTICAL CHARACTERISTICS

CONDITIONS	MIN	TYP	MAX	UNITS
120A, 150 µsec, 1kHz	100			W
100W at 25°C Heat Sink		110	120	А
25°C Heat Sink		18	20	A
100W at 25°C Heat Sink		808		nm
100W at 25°C Heat Sink		± 3		nm
100W at 25°C Heat Sink		2.0	2.5	nm
		0.25	0.27	nm/°C
		35x10	37x12	°X°
	120A, 150 µsec, 1kHz 100W at 25°C Heat Sink 25°C Heat Sink 100W at 25°C Heat Sink 100W at 25°C Heat Sink 100W at 25°C Heat Sink 	120A, 150 µsec, 1kHz  100    100W at 25°C Heat Sink     25°C Heat Sink     100W at 25°C Heat Sink	120A, 150 µsec, 1kHz  100     100W at 25°C Heat Sink   110    25°C Heat Sink   18    100W at 25°C Heat Sink   808    100W at 25°C Heat Sink   ± 3    100W at 25°C Heat Sink   2.0     0.25	120A, 150 µsec, 1kHz  100      100W at 25°C Heat Sink   110  120    25°C Heat Sink   18  20    100W at 25°C Heat Sink   808     100W at 25°C Heat Sink   ± 3     100W at 25°C Heat Sink   ± 0.25  2.5     0.25  0.27

# ELECTRICAL CHARACTERISTICS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Series Resistance	25°C Heat Sink		0.006	0.010	ohms
Operating Voltage	25°C Heat Sink, 100W		2.2	2.7	V

## ABSOLUTE MAXIMUM RATINGS

PARAMETER	CONDITIONS
Forward Current	120A
Reverse Current	25μΑ
Reverse Voltage	3V
Operating Temperature Range <sup>(2)</sup>	-20°C to 50°C
Storage Temperature Range	-40°C to 85°C

NOTES

光技術をサポ<u>ートする</u>

http://www.optoscience.com

会社オプトサイエンス

(1) Lower beam divergence is also available.

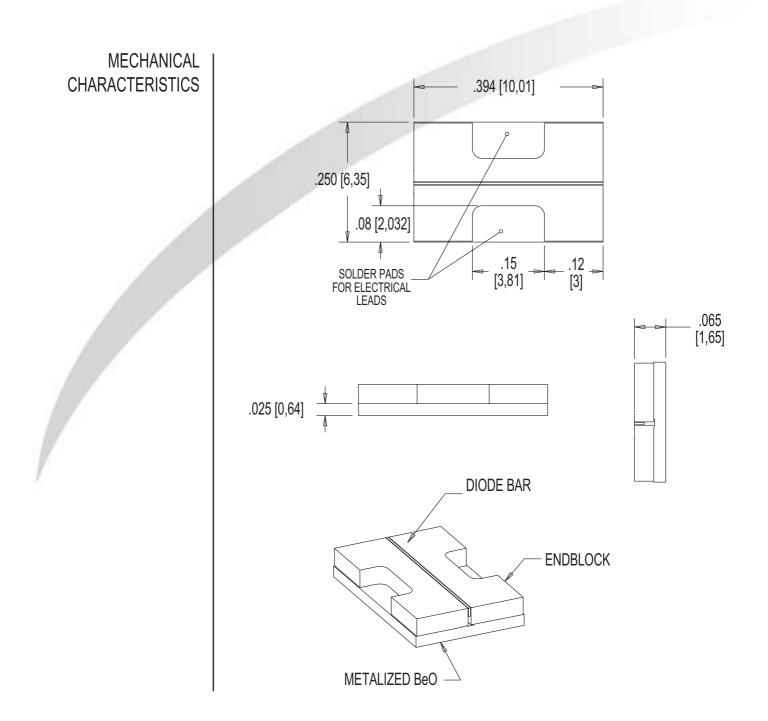
(2) A dry nitrogen environment should be provided by the user when storing and operating at temperatures below ambient dew point.

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Laser diode product components are intended for use in a user-devised end system. However, these products are capable of emitting Class IV radiation. Extreme care must be exercised during their operation. Only persons familiar with the appropriate safety precautions should operate a laser product. Directly viewing the laser beam or exposure to specular reflections must be avoided. Serious injury may result if any part of the body is exposed to the beam. The eye is extremely sensitive to the infrared radiation and therefore, proper eyewear must be worn at all times. Use of optical instruments with these products may increase eye hazard. Always were proper eye protection when operating.



NORTHROP GRUMMAN Space Technology

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ered by one or more of the following Patents: 5,898,211 5,985,684 5,913,108 6,310,900 Other US and Foreign Patents Pending.

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