LASER DIODE BARS

20W CW

DIODE BARS

NORTHROP GRUMMAN

PART NUMBER: UMB200C020

LASER DIODE BAR

- Excellent Solderability

- Available With Any Silver or Golden Bullet[®] Configuration

- Lot Tested

- Available Wavelengths (790-980nm)

FEATURES AND BENEFITS

> OPTICAL CHARACTERISTICS

Parameter	Conditions	Min	Тур	Units
CW Power Output	26A at 25°C Heat Sink	20	—	W
Operating Current	20W at 25°C Heat Sink	_	26	А
Threshold Current	25°C Heat Sink	-	9	А
Slope Efficieny	25°C Heat Sink	_	1.15	W/A
Efficieny	20W at 25°C Heat Sink	_	45	%
Number of Emitters	_	_	46	
Emitter Size	_	_	80×1	μm
Emitter Pitch	_	_	200	μm
Center Wavelength	20W at 25°C Heat Sink	_	808	nm
Wavelength Tolerance	20W at 25°C Heat Sink	_	+/-3	nm
Spectral Width	20W at 25°C Heat Sink	_	1.8	nm
Wavelength Shift	_	_	0.25	nm/°C
Beam Divergence FWHM	_	_	40×10	°×°
Polarization	_	_	TE	

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> ELECTRICAL CHARACTERISTICS

Parameter	Conditions	Min	Тур	Units
Series Resistance	25°C Heat Sink	—	0.004	ohms
Operating Voltage	25°C Heat Sink, 40W	_	1.7	V

MECHANICAL CHARACTERISTICS

Parameter	Typical
Bar Width	9.6 mm
BarThickness	135 µm
Bar Cavity Length	1000 µm

> NOTES

(1) These specifications apply for operation at 808nm. Other wavelengths available upon request.

光技術をサポートする

株式会社オプトサイエンス http://www.optoscience.com

(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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20W CW

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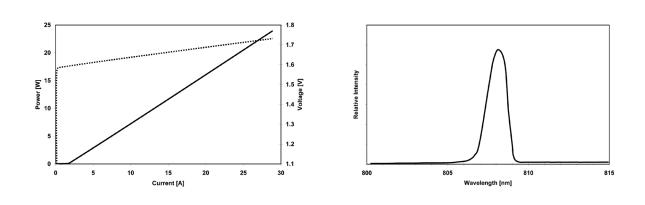
ABSOLUTE MAXIMUM RATINGS

Parameter	Conditions
Reverse Current	0 A
Reverse Voltage	0 V
Operating Temperature Range	-40°C to 70°C
Storage Temperature Range	-40°C to 85°C

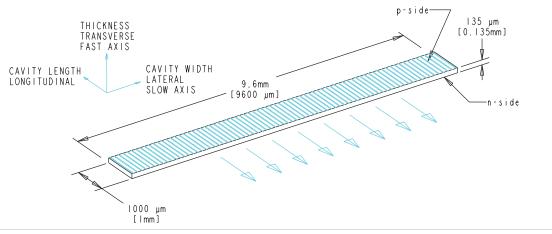
> SOLDERING CHARACTERISTICS

Parameter	Conditions
Metalization	1000 Å Au over Pt barrier

OPTICAL CHARACTERISTICS (TYPICAL)



MECHANICAL CHARACTERISTICS



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