High Power SOA Mini Bar



Part Number: BARm-184

High Power 4 Emitters Bar Single-Mode SOA CW Wavelength at 1310nm covering O band



Features

- High Output Power
- High Dynamic Range
- High Efficiency
- 4 Emitters Mini Bar
- Cost Effective

Application

- FMCW LiDAR
- Datacom
- Data Centers
- Telecom OTDR
- Telecom Optical Comm



SemiNex delivers the highest available power at infrared wavelengths between 12xx and 19xx nm. When necessary, we will further optimize the design of our InP & GaSb laser chips to meet our customers' specific optical and electrical performance needs. Diodes, bars and packages are tested to meet customer and market performance demands. Typical results and packaging options are shown. Contact SemiNex for additional details or to discuss your specific requirements.

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Specification

BARm-184



Optical	Symbol	Тур.	Units
Center Wavelength	λ _c	1310	nm
Output Power per emitter @1A*	P _{out}	0.35	Watts
Number of Emitters		4	
Emitter Width	W	4	μm
Spectral Width FWHM	Δλ	85	nm
Gain @ Pin=10μW	G	30	dB
Beam Exit Angle	Θεχτ	19.5	degree
Noise Figure	NF	6	dB
Polarization Extinction Ratio	PER	18	dB
Fast Axis Div.	ΘΤ	30	deg FWHM
Slow Axis Div.	Θ	20	deg FWHM
Front Facet Reflectivity		<0.1%	
Rear Facet Reflectivity		<0.1%	
Waveguide		Tilted Straight	
Waveguide Pitch		500	μm
Electrical	Symbol		Units
Operating Current per emitter	lop	1	А
Operating Voltage	V _{op}	2	V
Mechanical			Units
Mini Bar Length		2500	μm
Mini Bar Width		2000	μm
Operating Temp.**		-20 to 75	°C
Storage Temp.		-40 to 85	°C

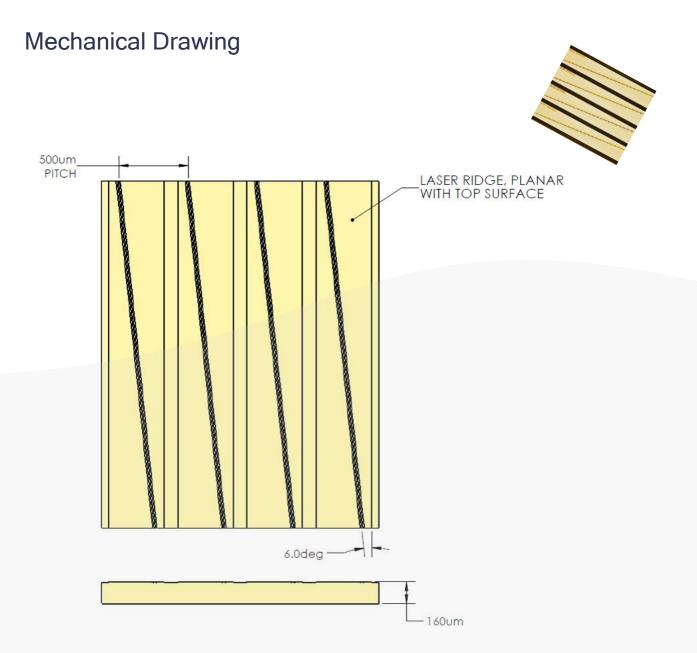
^{**}Specified operating conditions are based on 20°C heat sink temperature. High temperature operation will reduce performance and MTTF.

**Specified values are based on the P-side down configuration and rated at a constant heat sink temperature of 20°C.

Unless otherwise indicated all values are nominal.

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