High Power SOA Chip on Carriers



Part Number: COC-285

High Power SOA Chip on Carrier Single-Mode SOA Fabry-Perot Wavelength at 1550nm

Features

- High Output Power
- High Dynamic Range
- High Efficiency
- Standard SOA Chip on Carrier
- Cost Effective

Application

- OTDR
- LiDAR
- Free Space Communications
- Network Test Equipment



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, <u>bars</u> 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

COC-285



Optical	Symbol	Тур.	Units
Center Wavelength	λς	1550	nm
Output Power @1A*	Pout	0.3	Watts (±10%)
Aperture Width	AW	4	μm
Aperture Height	AH	1	μm
Spectral Width	Δλ	85	nm @ 3dB
Gain @ Pin = 10μW	G	25	dB
Beam Exit Angle	θ_{EXT}	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 Face Reflectivity		<0.1%	
Waveguide		Curved	
Electrical	Symbol		Units
Operating Current	lop	1	Α
Operating Voltage	Vop	2	V
Mechanical	Symbol	Range	Units
Chip Width		500	<u>um</u>
Operating Temp.**	°C	-20 to 75	°C
Storage Temp.	°C	-40 to 85	°C

 * Optical Power for 1310nm Chips CHP-288 and CHP-290 has an SOA current @ 1.2A and Pin @ 7mW * Optical Power for 1550nm Chips CHP-285 and CHP-287 has an SOA current @ 1.4A and Pin @ 36mW

*Specified values are rated at a constant heat sink temperature of 20°C.

**High temperature operation will reduce performance and MTTF.

Unless otherwise indicated all values are nominal.

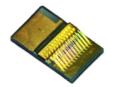
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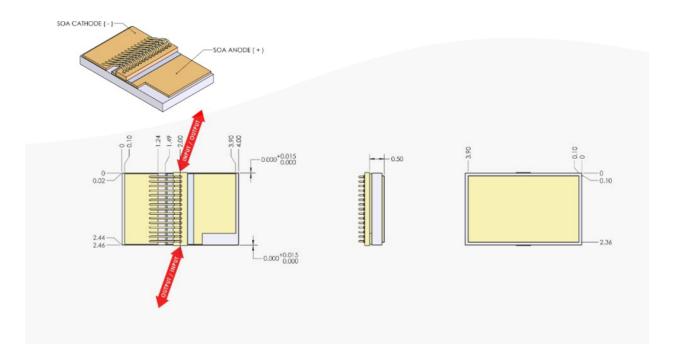
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High Power Laser Diode Chip on Carriers



Mechanical Drawing





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