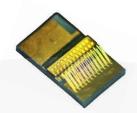
High Power SOA Chip on Carriers



Part Number: COC-288

High Power SOA Chip on Carrier Single-Mode SOA Curved Waveguide Wavelength at 1310nm



Features

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

Application

- LiDAR
- Optical Communications
- 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, 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

COC-288



Optical	Symbol	Тур.	Units
Center Wavelength	λς	1310	nm
Output Power @1A*	Pout	0.45	Watts
Aperture Width	AW	4	μm
Aperture Height	АН	1	μm
3dB Bandwidth	BW	80	nm
Gain @ Pin = 10μW	G	35	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∥	16	Deg FWHM
Front Facet Reflectivity		<0.1%	
Rear Face Reflectivity		<0.1%	
Waveguide		Curved	
Electrical	Symbol		Units
Operating Current	l _{op}	1	А
Operating Voltage	Vop	2	V
Mechanical		Range	Units
Chip Width		500	μm
Operating Temp.**		-20 to 75	°C
Storage Temp.		-40 to 85	°C

*Optical Power for 1310nm Chips CHP-288 and CHP-290 has an SOA current @ 1A and Pin @ 10mW *Optical Power for 1550nm Chips CHP-285 and CHP-287 has an SOA current @ 1A and Pin @ 36mW

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

**High temperature operation will reduce performance and MTTF.

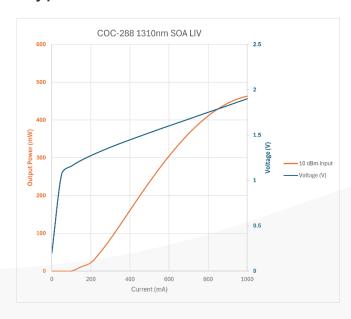
Unless otherwise indicated all values are nominal.

High Power SOA Chip on Carriers



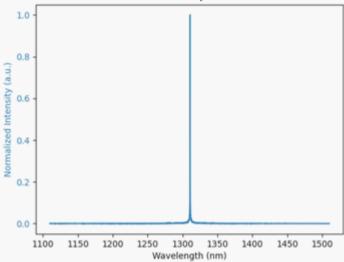
SemiNex SOA COC-288

Graphs & Data Typical COC L-I-V Characteristics



Typical COC Output Spectrum

COC-288 1310 SOA Spectrum at 500mA



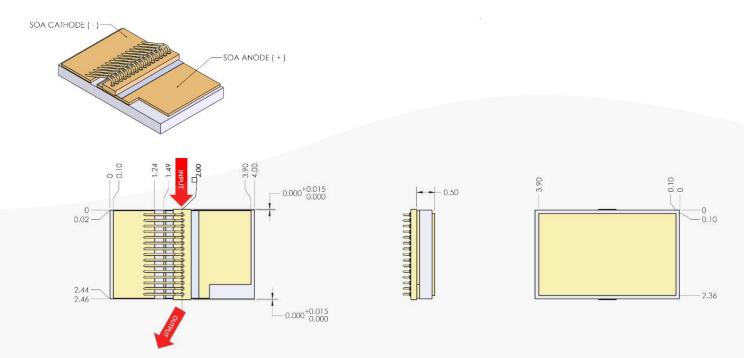
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Mechanical Drawing





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