High Power SOA Chip on Carriers



Part Number: COC-287

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

Features

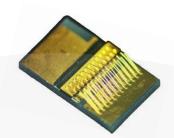
- High Output Power
- High Dynamic Range
- High Efficiency
- · Standard SOA Chip on Carrier
- Cost Effective

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 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.

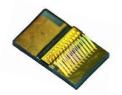


High Power SOA Chip on Carriers



Specification

COC-287



Optical	Symbol	Тур.	Units
Center Wavelength	λς	1550	nm
Output Power @1A*	Pout	0.375	Watts (±10%)
Aperture Width	AW	4	μm
Aperture Height	АН	1	μm
Spectral Width	Δλ	85	nm @ 3dB
Gain @ Pin = 10	G	40	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 Face Reflectivity		<0.1%	
Waveguide		Tilted Straight	
Electrical	Symbol		Units
Operating Current	lop	2	А
Operating Voltage	Vop	1	V
Mechanical	Symbol	Range	Units
Chip Width		500	μm
Operating Temp.**	°C	-40 to 100	°C
Storage Temp.	°C	-40 to 100	°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.

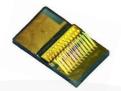
High Power SOA Chip on Carriers

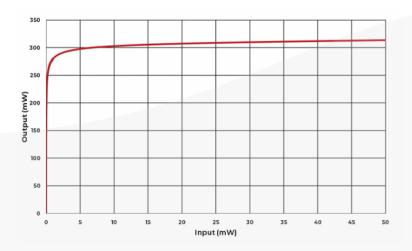


SemiNex Laser Diodes COC-287

Graphs & Data

Typical SOA COC L-I-V Characteristics



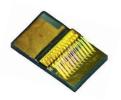


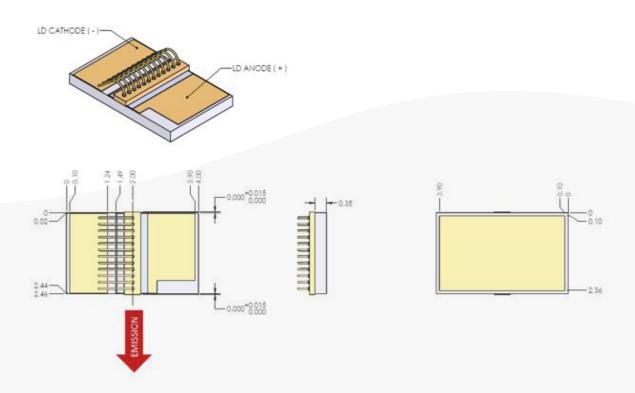
Typical SOA COC Output Spectrum

High Power SOA Chip on Carriers



Mechanical Drawing





All statements, technical information and recommendations related to the product herein are based upon information believed to be reliable or accurate. The accuracy or completeness herein is not guaranteed, and no responsibility is assumed for any inaccuracies. The user assumes all risks and liability whatsoever in connection with the use of a product or its application. SemiNex Corporation reserves the right to change at any time without notice the design, specification, deduction, fit or form of its described herein, including withdrawal at any time of a product offered for sale herein. Users are encouraged to visit www.seminex.com for the latest data. SemiNex Corporation makes no representations that the products herein are free from any intellectual property claims of others. Please contact SemiNex for more information. 2016 SemiNex Corporation

