

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.



## 14-Pin BF Single-Mode

## ApplicationsOTDRLiDAR

- Free Space Communications
- Network Test equipment

## Features

- High Output Power
  High Dynamic Range
  High Efficiency
  Standard Low Cost Package

## **SOA Chips**



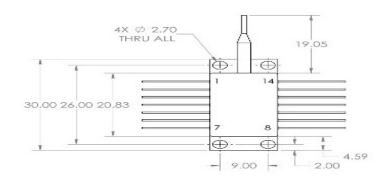


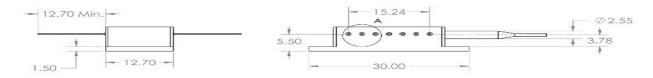
	Symbol	14BF-285	Units
Optical	.,		
Wavelength	λ <sub>c</sub>	1550	nm (±20)
Output Power@1000mA	P <sub>out</sub>	240	mW (±10%)
Aperture Width	AW	9	μm
Aperture Height	AH	1	μm
Spectral Width	δλ	85	nm @ 3dB
Gain @ Pin=10µW	G	45	dB
Beam Exit Angle	$\Theta_{EXT}$	19.5	degree
Noise Figure	NF	0	db
Polarization Extinction Ratio	PER	0	dB
Fast Axis Div.	⊝_perp	8	deg FWHM
Slow Axis Div.	Θ_parallel	8	deg FWHM
Front Facet Reflectivity		<0.1%	
Rear Face Reflectivity		<0.1%	
Waveguide		Curved	
Electrical			
Operating Voltage	$V_{op}$	2	V
Operating Current	I <sub>op</sub>	1	A
Mechanical	·		
Chip Length	CL	0	μm
Chip Width	W	500	μm
Weight		88	g
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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