

**High Power Laser Diode**

**14-Pin SOA Butterfly**

**Fiber Module**

A close-up of a microchip

Description automatically generatedA blue and white logo

Description automatically generated

* 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.

Application

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

Features

Part Number: 14BF-287

High Power 14-Pin SOA Butterfly Fiber Coupled Module

Single-Mode SOA Laser Diode

Wavelength at 1550nm

A logo with a red and blue design

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|  |  |  |  |
| --- | --- | --- | --- |
| **Optical** | **Symbol** | **Typ.** | **Units** |
| Center Wavelength | λc | 1550 | nm (±20) |
| Output Power @1.2A\* | Pout | 24.5 | dBm |
| PDL | PDL | 0.1 | dB |
| Return Loss (In) |  | 40 | dB |
| Return Loss (out) |  | 50 | dB |
| 3dB Bandwidth | BW | 100 | Nm |
| Gain @ Pin = 10μW | G | >35 | dB |
| **Electrical** | **Symbol** |  | **Units** |
| Operating Current | Iop | 1.2 | A |
| Operating Voltage | Vop | 2 | V |
| **Optical Fiber** | **Symbol** |  | **Units** |
| Fiber Core |  | 9 | μm |
| Fiber Package |  |  |  |
| Connector Type |  | FC / APC |  |
| Fiber Length |  | 1 | m |
| Pinout Type |  | Type 1 |  |
|  |  | **Range** |  |
| Operating Temp.\*\* |  | -20 to 75 | °C |
| Storage Temp. |  | -40 to 85 | °C  **\*Optical Output Power for 14BF-290 has an SOA current @ 1.2A and Pin @ 10dBm**  **\*Optical Output Power for 14BF-287 has an SOA current @ 1.2A and Pin @ 17dBm**  \*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. |

A close-up of a microchip

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14BF-287

Specification

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**SemiNex SOAs 14BF-287**

Graphs & Data

A close-up of a microchip

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A graph with a line drawn on it

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Typical SOA 14BF L-I-V Characteristics

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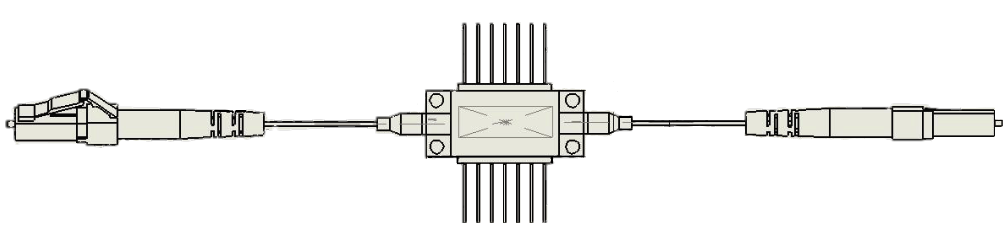
**Fiber Module**

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A close-up of a microchip

Description automatically generated

# Mechanical Drawing



A list of different types of electrical components

Description automatically generated with medium confidence

A diagram of a circuit

Description automatically generated

A warning sign with a red and black text

Description automatically generated

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