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SemiNex delivers the highest available power at infrared wavelengths between 12xx and 19xx nm. When necessary 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. requirements.



TO56 Mini Laser Diode

High Power Diode Laser in a compact TO56 package with 1.9mm pedestal, and optional 2.8mm cap.

Single or Multi Mode

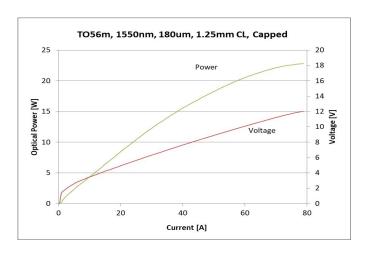
Wavelengths from 12xx to 19xx nm.

Applications

- OEM Medical Professional Medical
- LiDAR
- Military / Aerospace
- Illumination

Features

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



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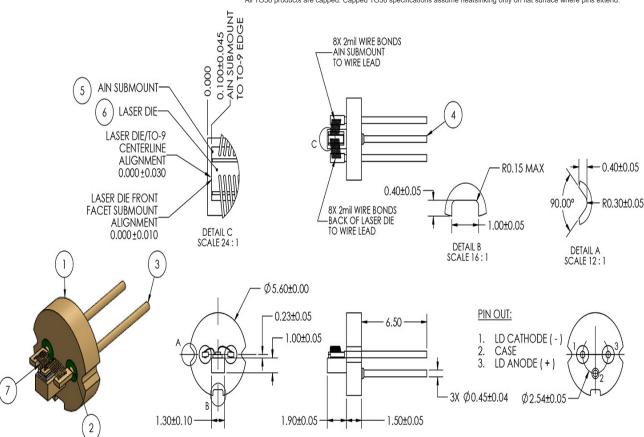


TO56



	Symbol	TO56m-300	Units
Optical			
Wavelength	$\lambda_{_{ m C}}$	1550	nm (±20)
Output Power (<10ns)	P∘	48.00	watts (±10%)
Output Power (150ns)	P∘	20.00	watts (±10%)
Cavity Length (typ.)	CL	1250	μm
No. of Junctions		1	
Emitter Width	W	180	μm
Emitter Height	Н	1	μm
Operating Current (<10ns)	I _{op}	120	Α
Operating Current (150ns)	I _{op}	60	Α
Operating Voltage	V_{op}	10	V
Threshold Current	I _{th}	1	A
Specifications			
Spectral Width	δλ	15	nm 3dB
Fast Axis Div.	⊝_perp	28	deg FWHM
Slow Axis Div.	Θ_parallel	14	deg FWHM
Pulse Width	PW	150	ns
Duty Cycle	DC	0.1	%
Mechanical			
Weight	·	0.31	g
Operating Temp.**		-40 to 60	°C
Storage Temp.		-40 to 80	°C

All TO56 products are capped. Capped TO56 specifications assume heatsinking only on flat surface where pins extend.



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



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

**Specified operating conditions are based on 20C heat sink temperature. High temperature operation will reduce performance and MTTF.

Unless otherwise indicated all values are nominal.