PI Sheet





SemiNex delivers the highest available power at infrared 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.



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

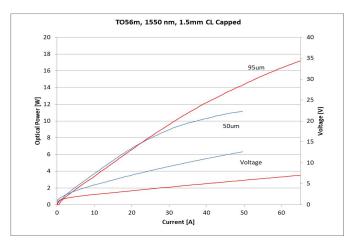
Wavelengths from 12xx to 19xx nm.

Applications

- OEM Medical Professional Medical •
- . Lidar
- Military / Aerospace •
- Illumination

Features

- Cost effective .
- High Output Power
- High Dynamic Range ٠
- High Efficiency
 Standard Low Cost Package



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PI Sheet





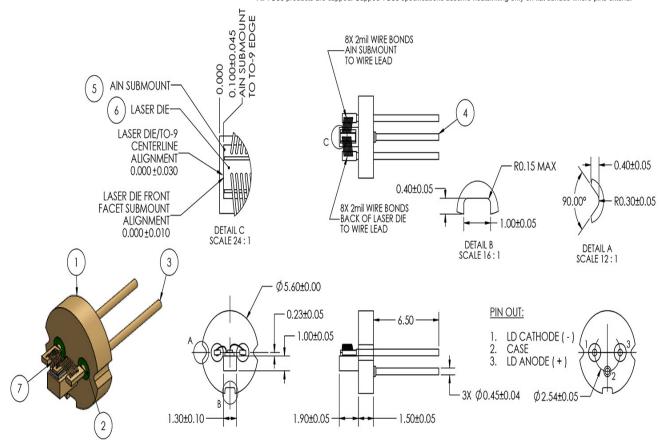


	Symbol	TO56m-302	Units
Optical			
Navelength	λ _c	1550	nm (±20)
Dutput Power (<10ns)	P。	24.00	watts (±10%)
Dutput Power (150ns)	P∘	8.00	watts (±10%)
Cavity Length (typ.)	CL	1250	μm
No. of Junctions		1	
Emitter Width	W	95	μm
Emitter Height	Н	1	μm
Operating Current (<10ns)	I _{op}	120	A
Operating Current (150ns)	l _{op}	60	A
Dperating Voltage	V _{op}	9.5	V
Threshold Current	l _{th}	1	A
Specifications			
Spectral Width	δλ	15	nm 3dB
Fast Axis Div.	O_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

TO56

**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.

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



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Date Created: Dec 1 2023 1:11PM UTC