+86 188-1364-1717

Preliminary Data Sheet





TO-9 Packaged Laser Diode

High Power Single-Mode and Multi-Mode SemiNex Lasers 12xx to 19xx nm Custom Wavelengths Available

Lensed Options Available

ApplicationsOEM Medical

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

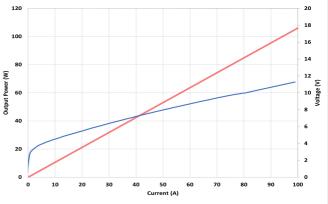
Features

- Cost effective ٠ High Output Power
- . High Dynamic Range
- High EfficiencyStandard Low Cost Package
- Capped

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.



Triple Junction LIV with 10ns pulse, 350um aperture and 2.5mm cavity length



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Triple Junction TO9



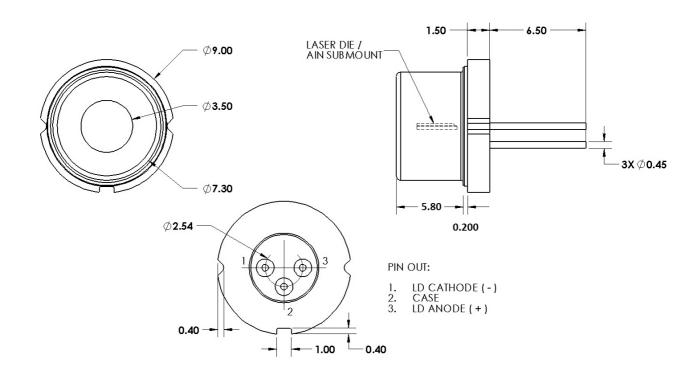
info@laser-opto.com



	Symbol	TO9-267-161	Units
Optical			
Wavelength	λ _c	1550	nm (±20)
Output Power (<10ns)	P°	100.00	watts (±10%)
Output Power (150ns)	P°	80.00	watts (±10%)
Chip Cavity Length	CL	2500	μm
No. of Junctions		3	
Emitter Width	W	350	μm
Emitter Height	Н	10	μm
Spectral Width	δλ	22	nm 3dB
Slope Efficiency	η°	1.00	W/A
Fast Axis Div.*	Θ_perp	28	deg FWHM
Slow Axis Div.	Θ_parallel	12	deg FWHM
Electrical			
Power Conversion Eff.	η	8	%
Operating Current (<10ns)	l _{op}	100	A
Operating Current (150ns)	lop	80	A
Threshold Current	lth	2	А
Operating Voltage	V _{op}	10	V
Series Resistance	Rs	0.1	ohm
Mechanical			
Weight		0	g
Operating Temp.**		-40 to 60	°C
Storage Temp.		-40 to 80	°C

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.

Uncapped TO9 specifications assume heatsinking underneath laser chip. Capped TO9 specifications assume heatsinking only on flat surface where pins extend.



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