

Part Number: TO56x-267

High Power Triple Junction TO56 Package Multi-Mode Fabry-Perot Pulsed Wavelength at 1550nm Lensed Options Available

Features

- High Output Power
- High Dynamic Range
- High Efficiency
- Standard TO56
- Cost Effective

Application

- Professional Medical
- Home Use Medical
- Laser Range Finder
- Target Illumination
- Military Systems
- TOF LiDAR for Automotive and Drones
- Telecom OTDR
- Optical Comm



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 & GaSb 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.



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Specification

TO56x-267



Optical	Symbol	Тур.	Units
Center Wavelength	λ _c	1550	nm (±20)
Output Power (<10ns)*	Pout	100	Watts (±10%)
Output Power (150ns)*	P _{out}	75	Watts (±10%)
Emitter Width	W	350	μm
Spectral Width FWHM	Δλ	22	nm
Slope Efficiency	η	1	W/A
Fast Axis Div.	Θ⊥	28	deg FWHM
Slow Axis Div.	Θ	12	deg FWHM
Electrical	Symbol		Units
Power Conversion Eff.	η	7.4	%
Operating Current (<10ns)	lop	100	А
Operating Current (150ns)	lop	75	А
Threshold Current	ITH	2	А
Operating Voltage	V _{op}	12	V
Duty Cycle	DC	0.1	%
Mechanical	Symbol	Range	Units
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.

**High temperature operation will reduce performance and MTTF.

Unless otherwise indicated all values are nominal.

^{*}Available Lenses & Caps

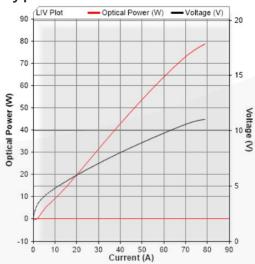
Part Number	Description	
TO56x-267-184	TO-56 Cap Ht=6.4mm, Lens FAC f=1.2mm	



SemiNex Laser Diodes TO56x-267

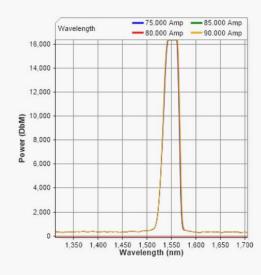
Graphs & Data

Typical TO56x L-I-V Characteristics





Typical TO56x Output Spectrum

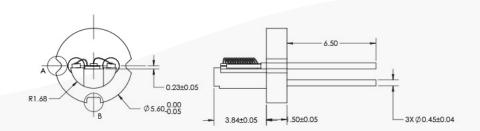


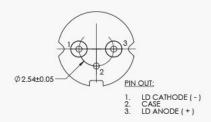
*Tested with 150nsec pulse @ 0.1% Duty Cycle



Mechanical Drawing TO56x-267







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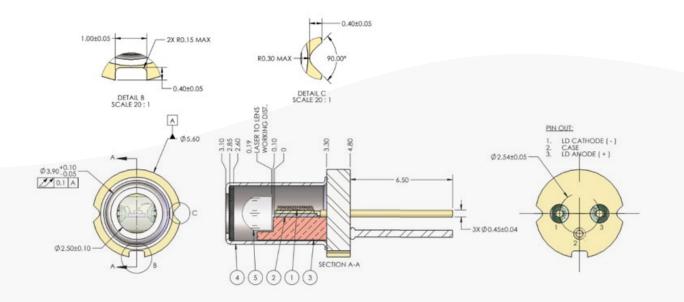


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Mechanical Drawing TO56x-267-184





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