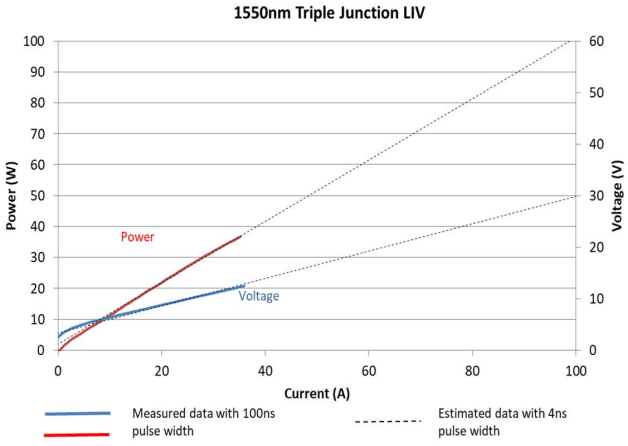
# Preliminary Data Sheet

"



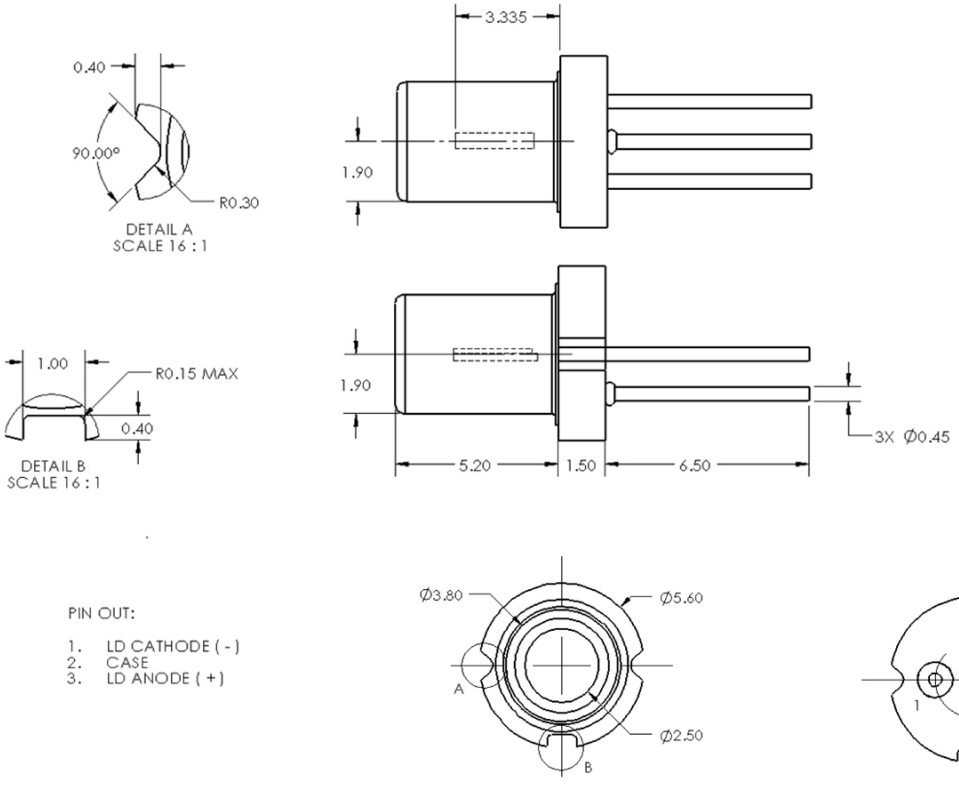

'

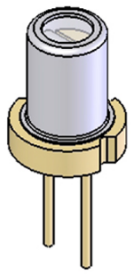
SemiNex LASER DIODES

# Triple Junction TO56

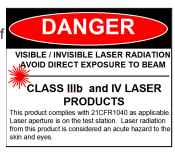
| | Symbol | TO56x-265 | Units |
|---|---|---|---|
| **Optical** | | | |
| Wavelength | $\lambda_c$ | 1550 | nm (±20) |
| Output Power (<10ns) | $P_o$ | 50.00 | watts (±10%) |
| Output Power (150ns) | $P_o$ | 35.00 | watts (±10%) |
| Cavity Length (typ.) | CL | 2500 | µm |
| No. of Junctions | | 3 | |
| Emitter Width | W | 95 | µm |
| Emitter Height | H | 10 | µm |
| Operating Current (<10ns) | $I_{op}$ | 50 | A |
| Operating Current (150ns) | $I_{op}$ | 40 | A |
| Operating Voltage | $V_{op}$ | 12 | V |
| Threshold Current | $I_{th}$ | 2 | A |
| **Specifications** | | | |
| Spectral Width | δλ | 22 | nm 3dB |
| Fast Axis Div. | Θ_perp | 28 | deg FWHM |
| Slow Axis Div. | Θ_parallel | 12 | deg FWHM |
| Pulse Width | PW | 150 | ns |
| Duty Cycle | DC | 0.1 | % |
| **Mechanical** | | | |
| Weight | | 0.5 | g |
| Operating Temp.** | | -40 to 85 | °C |
| Storage Temp. | | -40 to 85 | °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.
All TO56 products are capped. Capped TO56 specifications assume heatsinking only on flat surface where pins extend.








**SemiNex Corporation ● 153 Andover St ● Danvers, MA 01923 ● 978-326-7700 ● Email: info@seminex.com ● www.seminex.com**

Date Created: Dec 1 2023 1:11PM UTC