

Distributor



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Hybrid Laser Diodes for Pulsed Operations

ISO-9001:2015 Certified

High Efficiency

High Peak Power Emission 905nm

Peak Emission Wavelength Low

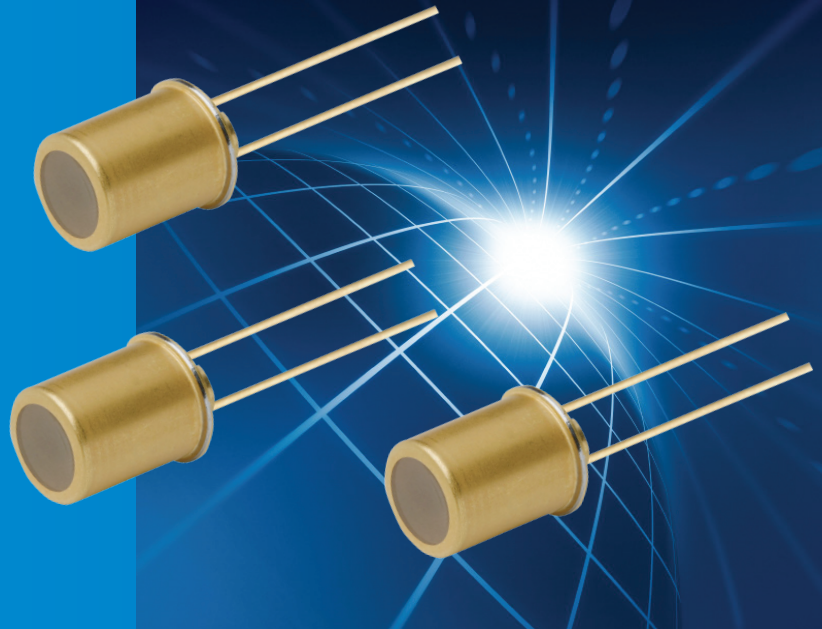
Voltage Operation

(100V Maximum)

RoHS Compliant

Applications:

- Rangefinders
- Ceilometers
- Weapons Simulation
- Surveying
- LIDAR



The **LHCVN** series incorporates a pulsed laser firing circuit into the same package as the laser diode. The hybridization of the driver permits much narrower pulse widths and faster rise times at lower voltage requirements than discrete laser drivers. The **LHCVN** series is compatible with all **OSI LaserDiode, Inc** standard **MOCVD** laser diodes and can be optimally driven utilizing commercially available **MOSFET** drivers. The hermetic TO5 package and increased efficiency is ideal when space and weight are of primary concern.

LHCVN Series Test Conditions: Rep. Rate = 1kHz, 25°C

| Parameters | LHCVN63-10 | LHCVN5S63-10 | LHCVN5S63-30 | Units |
|-----------------------------|------------|--------------|--------------|-------|
| Number of Diodes | 1 | 5 | 5 | |
| Power (Min) | 20 | 200 | 350 | W |
| Pulse Width (Typical) | 10 | 10 | 30 | ns |
| Emitter Area | 200 X 10 | 200 X 480 | 200 X 480 | um |
| Rise/Fall Times (Typical) | 2 | 2 | 2 | ns |
| Operating Voltage (Typical) | 40 | 100 | 100 | V |

LHCVN Series Specifications and Limits @ 25°C

| Parameters | Symbol | Min | Typ | Max | Units |
|-----------------------|----------------------|-----|--------|-----|---------|
| Wavelength | λ | 895 | 905 | 915 | nm |
| Spectral Width | FWHM $\Delta\lambda$ | | 5 | 12 | nm |
| Beam Spread - LHCVN | FWHM | | 9 x 25 | | degrees |
| Operating Temperature | T_{op} | 0 | | 70 | °C |
| Storage Temperature | T_{Stg} | 0 | | 75 | °C |

