T Series TO-Can
940nm 300mW
Single-mode, Continuous Wave (CW)

9mm (M9)
M9-940-0300-XXX

Features & Options
- AlN carrier on Cu submount
- AuSn bonding
- Hermetically sealed package
- AR coated windows
- Optional photodiode
- Optional microlens

Safety Warning
Laser light emitted from any laser diode is invisible and may be harmful to the human eye. Avoid looking directly into the laser aperture when the device is in operation. The use of optical instruments with this product will increase eye hazard.

ESD Warning
The primary cause of diode failure is unexpected electrostatic discharge. To help prevent device failures, the user should always wear an ESD wrist strap, ground all applicable work surfaces and follow anti-static techniques when handling diode lasers.

Laser Operation Consideration
Operating the laser beyond the limits of the provided specifications may result in device failure or a safety hazard and will void warranty. Devices must be passively or actively cooled in accordance with the provided specifications. Failure to comply with heatsinking requirements may result in device failure.

Warranty
Due to the delicate nature of laser diodes, Sheumann offers a limited warranty for all products. Please refer to our Terms and Conditions for full details.

Compliance Notice
These products are intended solely as a component of an electronic product and are not certified in accordance with IEC 60825-1 or 21 CFR 1040.10/21 CFR 1040.11. These products are subject to Export Administration Regulations (EAR) and will require a Destination Control Statement or End User Agreement for each sales order.

Parameter | Unit | Typ | Max |
--- | --- | --- | --- |
Wavelength | nm | 940 | - |
Operating Power | mW | 300 | - |
Operating Current* | mA | 370 | 450 |
Operating Voltage | V | 1.7 | 2.2 |
Threshold Current | mA | 38 | 55 |
Slope Efficiency | W/A | 0.9 | - |
Vertical Far Field @FWHM | degº | 28 | - |
Horizontal Far Field @FWHM | degº | 8 | - |

Optical Electrical Characteristics (T<sub>c</sub>=25ºC) 300mW

Parameter | Unit | Condition | Min | Typ | Max |
--- | --- | --- | --- | --- | --- |
Operational Temperature*** | ºC | CW | -20 | 25 | 50 |
Storage Temperature (for hermetic packages) | ºC | - | -40 | 25 | 85 |

Absolute Maximum Ratings**

* Please note that CW lasers may be damaged by excessive drive current or switching transients.
** Data is based on CW operation at 25ºC within a hermetically sealed package.
*** Device degradation accelerates with increased temperature.

This datasheet is for general reference only. Specifications are subject to change without notice. Product subject to availability. Visit sheaumann.com or contact sales@sheaumann.com for more information on products and services.