



# 9mm (M9) M9-852-0100-XXX

# Optical Electrical Characteristics (Tc=25°C)

Parameter	Unit	Тур	Max
Wavelength	nm	852	-
Operating Power	mW	100	-
Operating Current*	mA	150	180
Operating Voltage	V	1.9	2.2
Threshold Current	mA	35	55
Slope Efficiency	W/A	0.9	-
Vertical Far Field @FWHM	deg°	18	-
Horizontal Far Field @FWHM	deg°	8	-

## Absolute Maximum Ratings\*\*

Parameter	Unit	Condition	Min	Тур	Max
Operational Temperature***	°C	CW	-20	25	50
Storage Temperature (for hermetic packages)	°C	CW	-40	25	85

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

# **Features**

- · AIN carrier on Cu submount
- AuSn bonding
- Hermetically sealed package
- · AR coated windows
- · Optional photodiode
- · Optional microlens

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.

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

Coperating 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 failu-

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

These products are intended solely as a component of an electronic product and are nice usually as a component or 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.



Certified to







Germany & Other Countries

Laser Components GmbH Tel: +49 8142 2864 - 0 Fax: +49 8142 2864 - 11 info@lasercomponents.com www.lasercomponents.com

Laser Components S.A.S. Tel: +33 1 39 59 52 25 Fax: +33 1 39 59 53 50 info@lasercomponents.fr www.lasercomponents.fr

United Kingdom

Laser Components (UK) Ltd. Tel: +44 1245 491 499 Fax: +44 1245 491 801 info@lasercomponents.co.uk www.lasercomponents.co.uk Nordic Countries

Laser Components Nordic AB Tel: +46 31 703 71 73 Fax: +46 31 703 71 01 info@lasercomponents.se www.lasercomponents.se