Laser Diode
LCA904100M5N

Features

- Index Guided MQW Structure
- Wavelength: 904 nm (Typ.)
- Optical Power: 100 mW CW
- Threshold Current: 100 mA (Typ.)
- Package Style: TO-18 (5.6 mm∅)

Absolute Maximum Ratings (Tc=25 °C)

Description	Symbol	Rated Value
Optical Power (mW)	P_o	100
Operation Temperature (°C)	T_{op}	-10 to +50
Storage Temperature (°C)	T_{stg}	-40 to +85
LD Reverse Voltage (V)	V_{LDR}	2
PD Reverse Voltage (V)	V_{PDR}	30

Germany & Other Countries
Laser Components GmbH
Tel: +49 8142 2864 – 0
Fax: +49 8142 2864 – 11
info@lasercomponents.com
www.lasercomponents.com

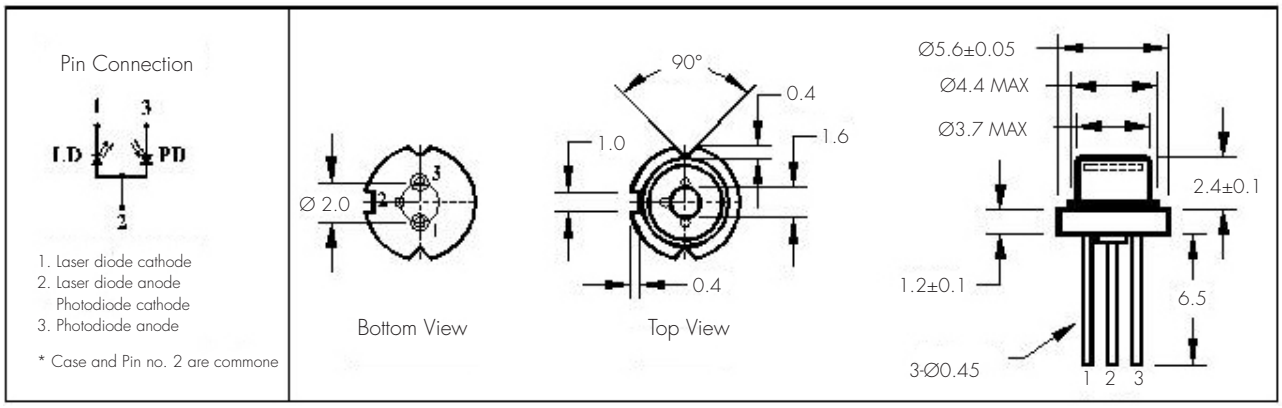
United Kingdom
Laser Components (UK) Ltd.
Tel: +44 1245 491 499
Fax: +44 1245 491 801
info@lasercomponents.co.uk
www.lasercomponents.co.uk

France
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

LASER COMPONENTS

Optical and Electrical Characteristics (Tc=25 °C)

Description	Symbol	Min.	Typical	Max.	Test Condition
Lasing Wavelength (nm)	λ_p	890	904	910	P_o=100 mW
Threshold Current (mA)	I_{th}	70	100	150	P_o=100 mW
Operating Current (mA)	I_{op}	200	250	350	P_o=100 mW
Operating Voltage (V)	V_{op}	1.8	2.0	2.5	P_o=100 mW
Monitor Current (mA)	I_m	0.9	1.0	2.0	P_o=100 mW, V_R=5V
Slope Efficiency (mW/mA)	η	0.5	0.7	0.9	***
Beam Divergence ∥ (°)	$\theta\parallel$	3	5	8	P_o=100 mW
Beam Divergence ⊥ (°)	$\theta\parallel$	30	40	50	P_o=100 mW
Astigmatism (µm)	A_s	*	11	*	P_o=100 mW, NA=0.4



Germany & Other Countries
Laser Components GmbH
Tel: +49 8142 2864 – 0
Fax: +49 8142 2864 – 11
info@lasercomponents.com
www.lasercomponents.com

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

France
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

02/12 / V1 / SB / divers-vis/lca/lca904100m5n.indd