



SEMCO LASER TECHNOLOGY*

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LD- 950A

Visible Laser Diode Technical Data

ABSOLUTE MAXIMUM RATINGS (Tc=25°C)

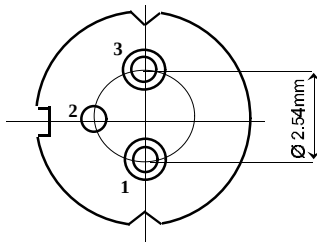
- Index Guided MQW Structure
- Wavelength : 904 nm (Typ.)
- Optical Power : 30 mW CW
- Threshold Current : 25 mA (Typ.)
- Standard Package : 5.6 mm Ø

DESCRIPTION	SYMBOL	RATED VALUE
Optical power (mW)	PO	30
Operation Temperature (°C)	Top	-10 to +40
Storage Temperature (°C)	Tstg	-40 to +85
LD reverse voltage (V)	VLDR	2
PD reverse voltage (V)	VPDR	30

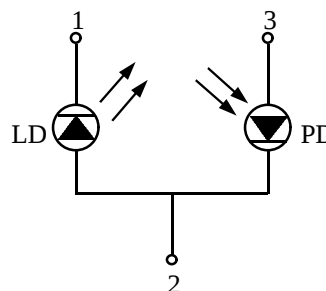
OPTICAL AND ELECTRICAL CHARACTERISTICS (Tc=25°C)

DESCRIPTION	SYMBOL	MIN.	TYPICAL	MAX.	TEST CONDITION
Lasing Wavelength (nm)	λ_p	880	904	920	P _o =30mW
Threshold Current (mA)	I _{th}	20	25	35	P _o =30mW
Operation Current (mA)	I _{op}	-	50	70	P _o =30mW
Operation Voltage (V)	V _{op}	1.9	2.1	2.5	P _o =30mW
Monitor Current (mA)	I _m	0.01	0.05	0.1	P _o =30 mW, V _R =5V
Slope Efficiency (mW/mA)	ζ	0.5	0.7	0.9	***
Beam Divergence // (°)	$\theta_{//}$	8	11	15	P _o =30mW
Beam Divergence $\perp$ (°)	$\theta_{\perp}$	20	35	45	P _o =30mW
Astigmatism (μm)	A _s	***	11	***	P _o =30mW, NA=0.4

Bottom View Pin Location



PIN CONNECTION



1. Laser diode cathode

2. Laser diode anode
photodiode cathode

3. Photodiode anode

case and pin no. 2 are in common