

$\lambda = 808 \text{ nm}$, $P = 1 \text{ Watt}$, Multimode Thorlabs L808P1WJ

Absolute Maximum Ratings ($T_C = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING
Optical Output Power (CW)	P_O	1 W
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	20 V
Operating Temperature	T_{op}	-20 to 40 °C
Storage Temperature	T_{stg}	-40 to 80 °C

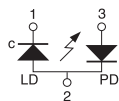
Characteristics ($T_C = 25^\circ\text{C}$, $P = 1 \text{ W}$)

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Threshold Current	I_{th}	–	1 A	1.2 A
Operating Current	I_{op}	–	1.9 A	2.5 A
Operating Voltage	V_{op}	–	1.65 V	2.0 V
Slope Efficiency	η_s	0.8 W/A	1.2 W/A	–
Lasing Wavelength	λ_p	798 nm	808 nm	818 nm
Beam Divergence (FWHM)	$\theta_{//}$	5°	8°	11°
	θ_{\perp}	30°	35°	40°
Monitor Current	I_m	0.1 mA	–	10 mA

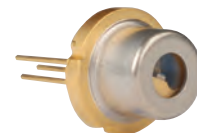
Note: All data is presented as typical unless otherwise specified.

Pin Description

- 1 laser cathode
- 2 common case
- 3 monitor diode anode



PIN CODE 9A



CAUTION: ELECTROSTATIC SENSITIVE

- Ø9 mm Package
- Single Emitter
- 1 x 100 μm Emitter Size
- Patented Device Structure
- Multimode

ITEM#	£*	€*	RMB*
L808P1WJ	£ 250.20	€ 322.72	¥ 3,060.40

*For quantities over 5 pieces, please call our local office for pricing.

ITEM#	PRICE 1-5 PCS	PRICE 6-10 PCS	PRICE 11-20 PCS	DESCRIPTION
L808P1WJ	\$ 362.60	\$ 326.34	\$ 290.08	Thorlabs 808 nm, 1 W

$\lambda = 830 \text{ nm}$, $P = 30 \text{ mW}$, Single Mode Sanyo DL5032-001

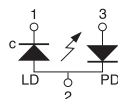


CAUTION: ELECTROSTATIC SENSITIVE

- Ø9 mm Package
- 30 mA (Typ.) Threshold Current
- 30 mW Output Power
- Single Transverse Mode
- 10 μm Astigmatism

Pin Description

- 1 laser cathode
- 2 common case
- 3 monitor diode anode



PIN CODE 9A

Absolute Maximum Ratings ($T_C = 25^\circ\text{C}$)

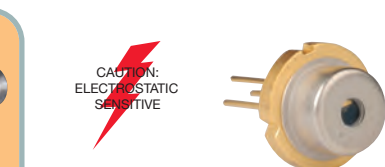
CHARACTERISTIC	SYMBOL	RATING
Light Output (CW)	P_O	40 mW
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	30 V
Operating Temperature	T_{opr}	-10 to +60 °C
Storage Temperature	T_{stg}	-40 to +80 °C

Characteristics ($T_C = 25^\circ\text{C}$, $P = 30 \text{ mW}$)

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Threshold Current	I_{th}	20 mA	30 mA	40 mA
Operation Current	I_{op}	–	60 mA	90 mA
Operation Voltage	V_{op}	–	1.9 V	2.5 V
Lasing Wavelength	λ_p	810 nm	830 nm	840 nm
Beam Divergence (FWHM)	$\theta_{//}$	5°	7.5°	10°
	θ_{\perp}	15°	18°	23°
Monitor Current	I_m	0.05 mA	0.1 mA	–
Astigmatism	A_s	–	–	10 μm

Note: All data is presented as typical unless otherwise specified.

$\lambda = 830 \text{ nm}$, $P = 40 \text{ mW}$, Single Mode Hitachi HL8325G

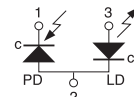


CAUTION: ELECTROSTATIC SENSITIVE

- Ø9 mm Package
- GaAlAs Triple Quantum Well Structure
- Pulsed Optical Power 50 mW with a 50% Maximum Duty Cycle and a Maximum Pulse Width of 1 μs
- Single Longitudinal Mode

Pin Description

- 1 monitor diode cathode
- 2 common case
- 3 laser anode



PIN CODE 9C

Absolute Maximum Ratings ($T_C = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING
Optical Output Power (CW)	P_O	40 mW
Pulse Optical Output Power*	P_O	50 mW
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	30 V
Operation Case Temperature	T_C	-10 to 60 °C
Storage Temperature	T_{stg}	-40 to 85 °C

*Pulse Condition: Pulse width = 1 μs , duty = 50%.

Characteristics ($T_C = 25^\circ\text{C}$, $P = 40 \text{ mW}$)

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Threshold Current	I_{th}	–	40 mA	70 mA
Operation Current	I_{op}	–	120 mA	–
Slope Efficiency	η_s	0.4 mW/mA	0.5 mW/mA	0.9 mW/mA
Lasing Wavelength	λ_p	820 nm	830 nm	840 nm
Beam Divergence (FWHM)	$\theta_{//}$	7°	10°	14°
	θ_{\perp}	18°	22°	32°
Monitor Current ($P=4 \text{ mW}$)	I_m	20 μA	40 μA	130 μA

Note: All data is presented as typical unless otherwise specified.

Optical Power Meters

See Page 1265

ITEM#	£*	€*	RMB*
HL8325G	£ 129.59	€ 167.15	¥ 1,585.10

*For quantities over 5 pieces, please call a local office for pricing.

ITEM#	PRICE 1-5 PCS	PRICE 6-10 PCS	PRICE 11-20 PCS	DESCRIPTION
HL8325G	\$ 187.80	\$ 159.63	\$ 131.46	Hitachi 830 nm, 40 mW