

852 nm Pigtails Laser Diode



Available with Single Mode Fiber

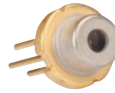
See page 1253

## $\lambda = 850 \text{ nm}$ , $P = 100 \text{ mW}$ , Multimode Thorlabs L850P100

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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	$P_o$	100 mW
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	30 V
Operation Case Temperature	$T_c$	-10 to $50^\circ\text{C}$
Storage Temperature	$T_{\text{stg}}$	-40 to $85^\circ\text{C}$

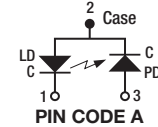
CAUTION:  
ELECTROSTATIC  
SENSITIVE



Pin Description

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

- $\varnothing 5.6 \text{ mm}$  Package
- Index-Guided MQW Structure
- Multimode
- $1 \times 40 \mu\text{m}$  Emitter Size
- $11 \mu\text{m}$  (Typical) Astigmatism



Characteristics ( $T_c = 25^\circ\text{C}$ ,  $P = 100 \text{ mW}$ )

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	$\lambda_p$	835 nm	850 nm	865 nm
Threshold Current	$I_{\text{th}}$	50 mA	70 mA	90 mA
Operating Current	$I_{\text{op}}$	150 mA	200 mA	350 mA
Operating Voltage	$V_{\text{op}}$	1.8	2.0 V	2.5 V
Beam Divergence (FWHM)	$\theta_{//}$	$8^\circ$	$10^\circ$	$12^\circ$
	$\theta_{\perp}$	$25^\circ$	$30^\circ$	$40^\circ$
Slope Efficiency	$\eta_s$	0.5 mW/mA	0.7 mW/mA	0.9 mW/mA
Monitor Current	$I_m$	0.1 mA	0.3 mA	1.5 mA

ITEM #	£*	€*	RMB*
L850P100	1-5 PCS £ 71.57	1-5 PCS € 86,48	1-5 PCS ¥ 792.22

\*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
L850P100	\$ 99.40	\$ 95.42	\$ 93.44	Thorlabs 850 nm, 100 mW

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

## $\lambda = 852 \text{ nm}$ , $P = 50 \text{ mW}$ , Single Mode Opnext HL8342MG

CAUTION:  
ELECTROSTATIC  
SENSITIVE

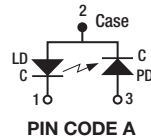


NEW  
product

- $\varnothing 5.6 \text{ m}$  Package
- 852 nm (Typical) Wavelength
- 50 mW Output Power (CW)
- 20 mA (Typical) Threshold Current

Pin Description

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



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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	$P_o$	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 $60^\circ\text{C}$
Storage Temperature	$T_{\text{stg}}$	-40 to $85^\circ\text{C}$

Characteristics ( $T_c = 25^\circ\text{C}$ ,  $P = 50 \text{ mW}$ )

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	$\lambda_p$	848 nm	852 nm	856 nm
Threshold Current	$I_{\text{th}}$	–	20 mA	40 mA
Operating Current	$I_{\text{op}}$	–	75 mA	100 mA
Operating Voltage	$V_{\text{op}}$	–	1.9 V	2.0 V
Beam Divergence (FWHM)	$\theta_{//}$	$6^\circ$	$9^\circ$	$12^\circ$
	$\theta_{\perp}$	$18^\circ$	$22^\circ$	$26^\circ$
Slope Efficiency	$\eta_s$	0.7 mW/mA	0.9 mW/mA	–
Monitor Current*	$I_m$	–	0.25 mA	–

Note: All data are presented as typical unless otherwise specified. \* $V_{R(PD)} = 5 \text{ V}$

ITEM #	£*	€*	RMB*
HL8342MG	1-5 PCS £ 144.00	1-5 PCS € 174.00	1-5 PCS ¥ 1,594.00

\*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
HL8342MG	\$ 200.00	\$ 190.00	\$ 180.00	Opnext 852 nm, 50 mW

## $\lambda = 852 \text{ nm}$ , $P = 100 \text{ mW}$ , Single Mode Axcel M9-852-0100

CAUTION:  
ELECTROSTATIC  
SENSITIVE

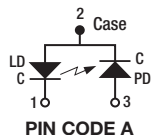


NEW  
product

- $\varnothing 9 \text{ mm}$  Package
- 852 nm (Typical) Wavelength
- 100 mW Output Power (CW)
- 20 mA (Typical) Threshold Current

Pin Description

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



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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	$P_o$	100 mW
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	30 V
Operation Case Temperature	$T_c$	-20 to $50^\circ\text{C}$
Storage Temperature	$T_{\text{stg}}$	-40 to $80^\circ\text{C}$

Characteristics ( $T_c = 25^\circ\text{C}$ ,  $P = 100 \text{ mW}$ )

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	$\lambda_p$	847 nm	852 nm	857 nm
Threshold Current	$I_{\text{th}}$	–	20 mA	40 mA
Operating Current	$I_{\text{op}}$	–	120 mA	170 mA
Operating Voltage	$V_{\text{op}}$	–	1.9 V	2.2 V
Beam Divergence (FWHM)	$\theta_{//}$	–	$8^\circ$	$10^\circ$
	$\theta_{\perp}$	–	$18^\circ$	$23^\circ$
Slope Efficiency	$\eta_s$	0.9 mW/mA	1.0 mW/mA	–
Monitor Current	$I_m$	–	0.058 mA	–

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

ITEM #	£*	€*	RMB*
M9-852-0100	1-5 PCS £ 229.99	1-5 PCS € 277.90	1-5 PCS ¥ 2,545.78

\*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
M9-852-0100	\$ 319.42	\$ 287.48	\$ 271.51	Axcel 852 nm, 100 mW