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785 nm Pigtailed Laser Diodes



Available in SM and PM Versions

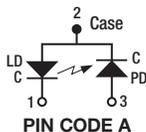
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$\lambda = 785 \text{ nm}$, $P = 90 \text{ mW}$, Multimode Thorlabs L785P100



Pin Description

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



- Ø5.6 mm Package
- 90 mW (Typical CW) or 220 mW (Pulsed) Optical Output Power
- Multimode

ITEM #	£* 1-5 PCS	€* 1-5 PCS	RMB* 1-5 PCS
L785P100	£ 28.95	€ 34.98	¥ 320.40

*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
L785P100	\$ 40.20	\$ 39.40	\$ 38.99	Thorlabs 785 nm, 90 mW

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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	100 mW*
Optical Output Power (Pulse)	P_o (Pulse)	220 nW**
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

*90 mW Typical **Pulse Condition: Pulse Width = 0.5 μs , Duty = 50%.

Characteristics ($T_c = 25^\circ\text{C}$, $P = 90 \text{ mW}$)

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	λ_p	775 nm	785 nm	795 nm
Threshold Current	I_{th}	25 mA	35 mA	55 mA
Operating Current	I_{op}	90 mA	115 mA	160 mA
Operating Voltage	V_{op}	1.5 V	2.0 V	2.2 V
Beam Divergence (FWHM)	$\theta_{//}$	8°	9°	10°
	θ_{\perp}	15°	17°	19°
Slope Efficiency	η_s	0.8 mW/mA	1.1 mW/mA	1.3 mW/mA
Monitor Current	I_m	0.1 mA	0.5 mA	0.7 mA

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

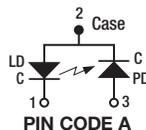
$\lambda = 785 \text{ nm}$, $P = 150 \text{ mW}$, Single Mode Axcel M9-785-0150



NEW product

Pin Description

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



- Ø9 mm Package
- 785 nm (Typical) Wavelength
- 150 mW Output Power (CW)
- 20 mA (Typical) Threshold Current

ITEM #	£* 1-5 PCS	€* 1-5 PCS	RMB* 1-5 PCS
M9-785-0150	£ 344.79	€ 416.62	¥ 3,816.60

*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
M9-785-0150	\$ 478.87	\$ 440.56	\$ 411.83	Axcel 785 nm, 150 mW

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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	150 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 °C
Storage Temperature	T_{stg}	-40 to 80 °C

Characteristics ($T_c = 25^\circ\text{C}$, $P = 150 \text{ mW}$)

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	λ_p	780 nm	785 nm	790 nm
Threshold Current	I_{th}	–	20 mA	30 mA
Operating Current	I_{op}	–	170 mA	200 mA
Operating Voltage	V_{op}	–	1.9 V	2.2 V
Beam Divergence (FWHM)	$\theta_{//}$	–	8°	10°
	θ_{\perp}	–	25°	30°
Slope Efficiency	η_s	1.0 mW/mA	1.1 mW/mA	–
Monitor Current*	I_m	–	0.051 mA	–

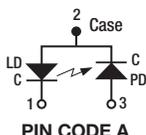
Note: All data are presented as typical unless otherwise specified. *P = 80 mW

$\lambda = 808 \text{ nm}$, $P = 10 \text{ mW}$, Single Mode Thorlabs L808P010



Pin Description

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



- Ø5.6 mm Package
- Index-Guided MQW Structure
- 1 x 5 μm Emitter Size
- 11 μm (Typical) Astigmatism

ITEM #	£* 1-5 PCS	€* 1-5 PCS	RMB* 1-5 PCS
L808P010	£ 14.40	€ 17.40	¥ 159.40

*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
L808P010	\$ 20.00	\$ 19.40	\$ 19.00	Thorlabs 808 nm, 10 mW

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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	10 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 °C
Storage Temperature	T_{stg}	-40 to 85 °C

Characteristics ($T_c = 25^\circ\text{C}$, $P = 10 \text{ mW}$)

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	λ_p	795 nm	808 nm	815 nm
Threshold Current	I_{th}	10 mA	25 mA	40 mA
Operating Current	I_{op}	25 mA	50 mA	70 mA
Operating Voltage	V_{op}	1.8 V	2.0 V	2.5 V
Beam Divergence (FWHM)	$\theta_{//}$	8°	10°	12°
	θ_{\perp}	25°	30°	40°
Astigmatism	A_s	–	11 μm	–
Slope Efficiency	η_s	0.3 mW/mA	0.5 mW/mA	0.7 mW/mA
Monitor Current	I_m	0.05 mA	0.3 mA	1.0 mA

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