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CHAPTERS

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SECTIONS

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Pigtailed Diodes

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WDM Laser Sources

HeNe Lasers

Laser Diode Modules

Tunable Lasers

Femtosecond Lasers

Optical Amplifiers

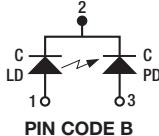
405 nm Pigtailed Laser Diode

Available with Single Mode Fiber

See page 1253

 $\lambda = 375 \text{ nm}, P = 20 \text{ mW}$, Single Mode Thorlabs L375P020MLD

- Ø5.6 mm Package
- 20 mW (Typical) Optical Output Power (CW)
- 1.2 W/A (Typical) Slope Efficiency


NEW
product

ITEM #	\$	£	€	RMB	DESCRIPTION
L375P020MLD*	CALL	CALL	CALL	CALL	Thorlabs 375 nm, 20 mW

*Ships with S05LM9, an SM05-compatible mount for Ø5.6 mm and Ø9 mm packages

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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	30 mW*
LD Reverse Voltage	$V_{R(LD)}$	5 V
PD Reverse Voltage	$V_{R(PD)}$	20 V
Operation Case Temperature	T_{op}	20 to 30 °C
Storage Temperature	T_{sig}	-40 to 85 °C

*20 mW Typical

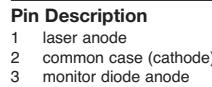
Characteristics ($T_c = 25^\circ\text{C}$, $P = 20 \text{ mW}$)

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	λ_p	370 nm	375 nm	380 nm
Threshold Current	I_{th}	—	45 mA	60 mA
Operating Current	I_{op}	—	60 mA	85 mA
Operating Voltage	V_{op}	4.5 V	5.2 V	6.5 V
Beam Divergence (FWHM)	$\theta//$	5°	8.5°	13°
	θ_\perp	18°	22°	26°
Slope Efficiency	η_s	0.9 mW/mA	1.2 mW/mA	1.6 mW/mA
Monitor Current	I_m	—	0.2 mA	—

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

 $\lambda = 405 \text{ nm}, P = 5 \text{ mW}$, Single Mode Sanyo DL3146-151

- Ø5.6 mm Package
- 405 nm (Typical) Wavelength
- 5 mW Output Power (CW)
- 35 mA (Typical) Threshold Current



ITEM #	PRICE 1-5 PCS	PRICE 6-10 PCS	PRICE 11-20 PCS	DESCRIPTION
DL3146-151	CALL	CALL	CALL	Sanyo 405 nm, 5 mW

 $\lambda = 405 \text{ nm}, P = 10 \text{ mW}$, Single Mode Sanyo DL4146-101SMaximum Ratings ($T_c = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	20 mW*
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	—
Operation Case Temperature	T_{op}	0 to 75 °C
Storage Temperature	T_{sig}	-40 to 85 °C

*10 mW Typical

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

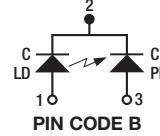
CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	λ_p	395 nm	405 nm	415 nm
Threshold Current	I_{th}	—	26 mA	50 mA
Operating Current	I_{op}	—	35 mA	60 mA
Operating Voltage	V_{op}	—	4.8 V	5.6 V
Beam Divergence (FWHM)	$\theta//$	6°	8.5°	12°
	θ_\perp	16°	19°	23°
Slope Efficiency	η_s	0.7 mW/mA	1.1 mW/mA	—
Monitor Current	I_m	0.1 mA	0.2 mA	0.5 mA

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


NEW
product

Pin Description

1	laser anode
2	common case (cathode)
3	monitor diode anode



ITEM #	PRICE 1-5 PCS	PRICE 6-10 PCS	PRICE 11-20 PCS	DESCRIPTION
DL4146-101S	CALL	CALL	CALL	Sanyo 405 nm, 10 mW