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Did you know...

All laser diodes are extremely electrostatic sensitive; see page 468 for our selection of antistatic products.



1060 nm Pigtailed Laser Diode



Available with Single Mode Fiber

See page 1253

For current pricing, please see our website.

Updated LF 3/28/12

$\lambda = 980 \text{ nm}$ ,  $P = 300 \text{ mW}$ , Single Mode Thorlabs L980P300J

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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	$P_o$	300 mW
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	20 V
Operation Case Temperature	$T_c$	-20 to $50^\circ\text{C}$
Storage Temperature	$T_{stg}$	-40 to $85^\circ\text{C}$

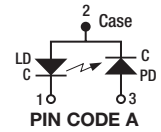
Characteristics ( $T_c = 25^\circ\text{C}$ ,  $P = 300 \text{ mW}$ )

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	$\lambda_p$	970 nm	980 nm	990 nm
Threshold Current	$I_{th}$	-	100 mA	130 mA
Operating Current	$I_{op}$	-	430 mA	510 mA
Operating Voltage	$V_{op}$	-	1.45 V	2.0 V
Beam Divergence (FWHM)	$\theta_{//}$	$4^\circ$	$7^\circ$	$10^\circ$
	$\theta_{\perp}$	$25^\circ$	$30^\circ$	$35^\circ$
Slope Efficiency	$\eta_s$	0.8 mW/mA	0.9 mW/mA	-
Monitor Current	$I_m$	0.05 mA	-	10 mA

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



Pin Description  
1 laser cathode  
2 common case  
3 monitor diode anode



- Ø9 mm Package
- 0.85 mW/mA (Typ.) Slope Efficiency
- Single Transverse Mode
- Patented Device Structure, F000038US01

ITEM #	£* 1-5 PCS	€* 1-5 PCS	RMB* 1-5 PCS
L980P300J	£ 438.27	€ 529.57	¥ 4,851.34

\*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
L980P300J	\$ 608.70	\$ 547.83	\$ 517.40	Thorlabs 980 nm, 300 mW

$\lambda = 980 \text{ nm}$ ,  $P = 300 \text{ mW}$ , Single Mode Axcel M9-980-0300

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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	$P_o$	300 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	$T_{stg}$	-40 to $80^\circ\text{C}$

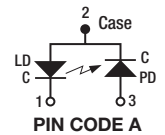
Characteristics ( $T_c = 25^\circ\text{C}$ ,  $P = 300 \text{ mW}$ )

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	$\lambda_p$	975 nm	980 nm	985 nm
Threshold Current	$I_{th}$	-	30 mA	50 mA
Operating Current	$I_{op}$	-	370 mA	420 mA
Operating Voltage	$V_{op}$	-	1.8 V	2.0 V
Beam Divergence (FWHM)	$\theta_{//}$	-	$8^\circ$	$10^\circ$
	$\theta_{\perp}$	-	$28^\circ$	$30^\circ$
Slope Efficiency	$\eta_s$	0.8 mW/mA	0.9 mW/mA	-
Monitor Current	$I_m$	-	0.360 mA	-

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



Pin Description  
1 laser cathode  
2 common case  
3 monitor diode anode



- Ø9 mm Package
- 980 nm (Typical) Wavelength
- 300 mW Output Power (CW)
- 30 mA (Typical) Threshold Current

ITEM #	£* 1-5 PCS	€* 1-5 PCS	RMB* 1-5 PCS
M9-980-0300	£ 318.55	€ 384.92	¥ 3,526.17

\*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
M9-980-0300	\$442.43	\$420.31	\$ 398.19	Axcel 980 nm, 300 mW

$\lambda = 1060 \text{ nm}$ ,  $P = 200 \text{ mW}$ , Single Mode Thorlabs L1060P200J

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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	$P_o$	200 mW
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	20 V
Operation Case Temperature	$T_c$	-20 to $40^\circ\text{C}$
Storage Temperature	$T_{stg}$	-40 to $85^\circ\text{C}$

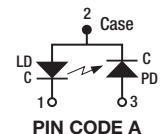
Characteristics ( $T_c = 25^\circ\text{C}$ ,  $P = 200 \text{ mW}$ )

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	$\lambda_p$	1040 nm	1060 nm	1080 nm
Threshold Current	$I_{th}$	-	40 mA	80 mA
Operating Current	$I_{op}$	-	280 mA	320 mA
Operating Voltage	$V_{op}$	-	1.3 V	2.0 V
Beam Divergence (FWHM)	$\theta_{//}$	$4^\circ$	$6^\circ$	$8^\circ$
	$\theta_{\perp}$	$27^\circ$	$32^\circ$	$37^\circ$
Slope Efficiency	$\eta_s$	0.7 mW/mA	0.8 mW/mA	-
Monitor Current	$I_m$	0.05 mA	-	5 mA

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



Pin Description  
1 laser cathode  
2 common case  
3 monitor diode anode



- Ø9 mm Package
- 200 mW (Max) Optical Output Power (CW)
- 0.80 mW/mA (Typical) Slope Efficiency

ITEM #	£* 1-5 PCS	€* 1-5 PCS	RMB* 1-5 PCS
L1060P200J	£ 481.68	€ 582.03	¥ 1,331.93

\*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
L1060P200J	\$ 669.00	\$ 635.55	\$ 602.10	Thorlabs 1060 nm, 200 mW