

For current pricing, please see our website.

REVISED

11:51 am, Jul 20, 2012

CHAPTERS

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SECTIONS

Laser Diodes

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Tunable Lasers

Femtosecond Lasers

Optical Amplifiers

Did you know...

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



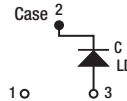
$\lambda = 637 \text{ nm}$, $P = 250 \text{ mW}$, Multimode Hitachi HL6388MG



NEW product

Pin Description

- 1 no connection
- 2 laser cathode
- 3 laser anode



PIN CODE H

- $\varnothing 5.6 \text{ mm}$ Package
- 250 mW Optical Output Power (CW)
- Multimode Diode

ITEM #	£* 1-5 PCS	€* 1-5 PCS	RMB* 1-5 PCS
HL6388MG	£ 265.09	€ 320,31	¥ 2,934.32

*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
HL6388MG	\$ 368.17	\$ 312.94	\$ 283.49	Hitachi 637 nm, 250 mW

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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	250 mW
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	-
Operation Case Temperature	T_{op}	-10 to 50 $^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to 85 $^\circ\text{C}$

Characteristics ($T_c = 25 \text{ }^\circ\text{C}$, $P = 250 \text{ mW}$)

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	λ_p	632 nm	637 nm	642 nm
Threshold Current	I_{th}	-	100 mA	140 mA
Operating Current	I_{op}	-	340 mA	430 mA
Operating Voltage	V_{op}	-	2.3 V	2.8 V
Beam Divergence (FWHM)	$\theta_{//}$	-	11 $^\circ$	20 $^\circ$
	θ_{\perp}	30 $^\circ$	40 $^\circ$	50 $^\circ$
Slope Efficiency	η_s	0.7 mW/mA	1.05 mW/mA	-

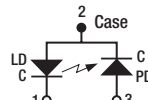
Note: All data are presented as typical unless otherwise specified.

$\lambda = 638 \text{ nm}$, $P = 20 \text{ mW}$, Single Mode Sanyo DL5148-030



Pin Description

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



PIN CODE A

- $\varnothing 5.6 \text{ mm}$ Package
- 20 mW Output Power (CW)
- 60 mn (Typical) Threshold Current
- 2:1 Aspect Ratio

NEW product

ITEM #	£* 1-5 PCS	€* 1-5 PCS	RMB* 1-5 PCS
DL5148-030	£ 100.52	€ 121,46	¥ 1,112.62

*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
DL5148-030	\$ 139.60	\$ 132.62	\$ 128.43	Sanyo 638 nm, 20 mW

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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	25 mW*
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	30 V
Operation Case Temperature	T_{op}	-10 to 50 $^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to 85 $^\circ\text{C}$

*20 mW Typical

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

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	λ_p	-	638 nm	645 nm
Threshold Current	I_{th}	-	60 mA	85 mA
Operating Current	I_{op}	-	80 mA	105 mA
Operating Voltage	V_{op}	-	2.3 V	2.7 V
Beam Divergence (FWHM)	$\theta_{//}$	6 $^\circ$	8 $^\circ$	12 $^\circ$
	θ_{\perp}	12 $^\circ$	16 $^\circ$	22 $^\circ$
Monitor Current	I_m	0.1 mA	0.3 mA	0.6 mA

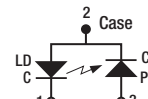
Note: All data are presented as typical unless otherwise specified.

$\lambda = 638 \text{ nm}$, $P = 40 \text{ mW}$, Single Mode Sanyo DL6148-030



Pin Description

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



PIN CODE A

- $\varnothing 5.6 \text{ mm}$ Package
- 60 mA (Typical) Threshold Current
- Single Longitudinal Mode
- 2:1 Aspect Ratio (Typical)

ITEM #	£* 1-5 PCS	€* 1-5 PCS	RMB* 1-5 PCS
DL6148-030	£ 176.48	€ 213,24	¥ 1,953.45

*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
DL6148-030	\$ 245.10	\$ 237.75	\$ 232.84	Sanyo 638 nm, 40 mW

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

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

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

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	λ_p	635 nm	638 nm	645 nm
Threshold Current	I_{th}	-	60 mA	85 mA
Operating Current	I_{op}	-	100 mA	130 mA
Operating Voltage	V_{op}	-	2.4 V	2.7 V
Beam Divergence (FWHM)	$\theta_{//}$	6.5 $^\circ$	8.5 $^\circ$	12 $^\circ$
	θ_{\perp}	12 $^\circ$	16 $^\circ$	22 $^\circ$
Slope Efficiency	η_s	0.8 mW/mA	1.0 mW/mA	1.2 mW/mA
Monitor Current	I_m	0.3 mA	0.6 mA	0.9 mA

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