

## $\lambda = 830 \text{ nm}$ , $P = 40 \text{ mW}$ , Single Mode Hitachi HL8325G

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

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	$P_o$	40 mW
Pulsed Optical Output Power	$P_o(\text{pulse})$	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 °C
Storage Temperature	$T_{stg}$	-40 to 85 °C

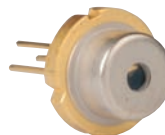
\*Pulse Condition: Pulse Width  $\leq 1 \mu\text{s}$ , Duty  $\leq 50\%$

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

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	$\lambda_p$	820 nm	830 nm	840 nm
Threshold Current	$I_{th}$	-	40 mA	70 mA
Operating Current	$I_{op}$	-	120 mA	-
Beam Divergence (FWHM)	$\theta_{//}$	7°	10°	14°
	$\theta_{\perp}$	18°	22°	32°
Slope Efficiency	$\eta_s$	0.4 mW/mA	0.5 mW/mA	0.9 mW/mA
Monitor Current ( $P=4 \text{ mW}$ )	$I_m$	20 $\mu\text{A}$	40 $\mu\text{A}$	130 $\mu\text{A}$

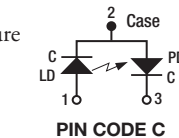
Note: All data are presented as typical unless otherwise specified.

CAUTION:  
ELECTROSTATIC  
SENSITIVE



#### Pin Description

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



- $\varnothing 9 \text{ mm}$  Package
- GaAlAs Triple Quantum Well Structure
- 50 mW Pulsed Optical Power with a 50% Maximum Duty Cycle and a Maximum Pulse Width of 1  $\mu\text{s}$
- 5  $\mu\text{m}$  (Typical) Astigmatism
- Single Longitudinal Mode

ITEM #	£*	€*	RMB*
HL8325G	1-5 PCS £ 139.32	1-5 PCS € 168,35	1-5 PCS ¥ 1,542.20

\*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
HL8325G	\$ 193.50	\$ 172.22	\$ 160.61	Hitachi 830 nm, 40 mW

## $\lambda = 830 \text{ nm}$ , $P = 50 \text{ mW}$ , Single Mode Opnext HL8338MG

### 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 °C
Storage Temperature	$T_{stg}$	-40 to 85 °C

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

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	$\lambda_p$	820 nm	830 nm	840 nm
Threshold Current	$I_{th}$	-	20 mA	40 mA
Operating Current	$I_{op}$	-	75 mA	100 mA
Operating Voltage	$V_{op}$	-	1.9 V	2.4 V
Beam Divergence (FWHM)	$\theta_{//}$	6°	9°	12°
	$\theta_{\perp}$	18°	22°	26°
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.

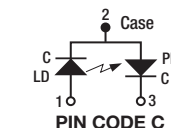
CAUTION:  
ELECTROSTATIC  
SENSITIVE



NEW  
product

#### Pin Description

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



- $\varnothing 5.6 \text{ mm}$  Package
- 50 mW (Typical) Optical Output Power (CW)
- 0.9 mW/mA (Typical) Slope Efficiency

ITEM #	£*	€*	RMB*	DESCRIPTION
HL8338MG	£69.52	€84.00	¥ 769.51	Opnext 830 nm, 50 mW

\*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
HL8338MG	\$ 96.55	\$ 94.62	\$ 93.65	Opnext 830 nm, 50 mW

## $\lambda = 830 \text{ nm}$ , $P = 150 \text{ mW}$ , Single Mode Axcel M9-830-0150

### 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

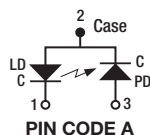
### Characteristics ( $T_C = 25^\circ\text{C}$ , $P = 150 \text{ mW}$ )

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	$\lambda_p$	825 nm	830 nm	835 nm
Threshold Current	$I_{th}$	-	20 mA	40 mA
Operating Current	$I_{op}$	-	170 mA	220 mA
Operating Voltage	$V_{op}$	-	1.9 V	2.2 V
Beam Divergence (FWHM)	$\theta_{//}$	-	8°	10°
	$\theta_{\perp}$	13°	18°	23°
Slope Efficiency	$\eta_s$	0.9 mW/mA	1.0 mW/mA	-
Monitor Current	$I_m$	-	0.063 mA	-

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

#### Pin Description

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



CAUTION:  
ELECTROSTATIC  
SENSITIVE



NEW  
product

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

ITEM #	£*	€*	RMB*
M9-830-0150	1-5 PCS £ 319.12	1-5 PCS € 385,60	1-5 PCS ¥ 3,532.39

\*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
M9-830-0150	\$ 443.21	\$ 394.46	\$ 367.86	Axcel 830 nm, 150 mW

Did you  
know...

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

