λ = 660 nm, P = 120 mW, Single Mode Hitachi HL6545MG

Maximum Ratings (T_C = 25 °C)

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	130 mW*
Optical Output Power (Pulse)	$P_{o(pulse)}$	300 mW**
LD Reverse Voltage	$V_{R(LD)}$	2 V
CW Operation Case Temperature	$V_{R(PD)}$	-10 to 75 °C
Pulse Operation Case Temperature	$T_{(pulse)}$	-10 to 75 °C**
Storage Temperature	T_{stg}	-40 to 85 °C

*120 mW Typical **Pulse Condition: Pulse Width = 30 ns, Duty = 35%

Characteristics (T_C = 25 °C, P = 120 mW)

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	λ_p	652 nm	660 nm	664 nm
Threshold Current	I_{th}	–	55 mA	75 mA
Operating Current	I_{op}	–	170 mA	210 mA
Operating Voltage	V_{op}	–	2.45 V	3.0 V
Beam Divergence (FWHM)	θ//	7.5°	10°	12°
	$\theta_\perp$	15°	17°	19°
Astigmatism (P_o = 5 mW)	A_s	–	1 µm	–

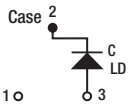
Note: All data are presented as typical unless otherwise specified.

NEW product

CAUTION: ELECTROSTATIC SENSITIVE

Pin Description
1 no connection
2 cathode case
3 laser anode

- Ø5.6 mm Package
- 1 µm Astigmatism @ 5 mW
- 170 mA (Typical) Operating Current
- 300 mW of Pulsed Optical Power with a 35% Duty Cycle and a Maximum Pulse Width of 30 ns



PIN CODE H

ITEM #	£* 1-5 PCS	€* 1-5 PCS	RMB* 1-5 PCS
HL6545MG	£ 53.79	€ 64,99	¥ 595.36

*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
HL6545MG	$ 74.70	$ 72.46	$ 70.96	Hitachi 660 nm, 120 mW

λ = 660 nm, P = 120 mW, Single Mode Mitsubishi ML101J27

Maximum Ratings (T_C = 25 °C)

CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	130 mW*
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	–
Operation Case Temperature	T_{op}	-10 to 75 °C
Storage Temperature	T_{stg}	-40 to 100 °C

*90 mW Typical

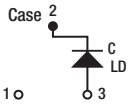
Characteristics (T_C = 25 °C, P = 120 mW)

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	λ_p	654 nm	660 nm	664 nm
Threshold Current	I_{th}	–	80 mA	–
Operating Current	I_{op}	–	200 mA	–
Operating Voltage	V_{op}	–	2.5 V	3.0 V
Beam Divergence (FWHM)	θ//	7°	10°	12°
	$\theta_\perp$	14°	17°	20°
Slope Efficiency	η_s	–	0.95 mW/mA	–

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

CAUTION: ELECTROSTATIC SENSITIVE

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



PIN CODE H

- Ø5.6 mm Package
- 130 mW (Max) Optical
- 0.95 W/A (Typical) Slope Efficiency

ITEM #	£* 1-5 PCS	€* 1-5 PCS	RMB* 1-5 PCS
ML101J27*	£ 125.36	€ 151,47	¥ 1,387.58

*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
ML101J27	$ 174.10	$ 170.62	$ 167.14	Mitsubishi 660 nm, 120 mW

λ = 670 nm, P = 5 mW, Single Mode Hitachi HL6724MG

Maximum Ratings (T_C = 25 °C)

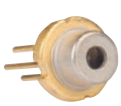
CHARACTERISTIC	SYMBOL	MAX RATING
Optical Output Power (CW)	P_o	5 mW
Optical Output Power (Pulse)	$P_{o(pulse)}$	6 mW*
LD Reverse Voltage	$V_{R(LD)}$	2 V
PD Reverse Voltage	$V_{R(PD)}$	30 V
Operation Case Temperature	T_c	-10 to 50 °C
Storage Temperature	T_{stg}	-40 to 85 °C

*Pulse Condition: Pulse Width ≤ 1 µs, Duty ≤ 50%

Characteristics (T_C = 25 °C, P = 5 mW)

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Lasing Wavelength	λ_p	660 nm	670 nm	680 nm
Threshold Current	I_{th}	–	25 mA	35 mA
Operating Current	I_{op}	–	35 mA	50 mA
Operating Voltage	V_{op}	–	–	2.7 V
Beam Divergence (FWHM)	θ//	5°	8°	11°
	$\theta_\perp$	22°	30°	40°
Monitor Current	I_m	0.4 mA	0.9 mA	2 mA

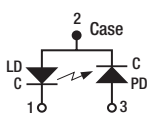
Note: All data are presented as typical unless otherwise specified.



CAUTION: ELECTROSTATIC SENSITIVE

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

- Ø5.6 mm Package
- AlGaInP Index-Guided Laser Diode with a Multi-Quantum Well (MQW) Structure
- Pulsed Optical Power of 6 mW with a 50% Duty Cycle and a Maximum Pulse Width of 1 µs @ 5 mW
- 5 µm (Typical) Astigmatism @ 5 mW



PIN CODE A

ITEM #	£* 1-5 PCS	€* 1-5 PCS	RMB* 1-5 PCS
HL6724MG	£ 17.00	€ 20,54	¥ 188.10

*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
HL6724MG	$ 23.60	$ 22.89	$ 22.42	Hitachi 670 nm, 5 mW

Did you know...

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