

$\lambda = 660 \text{ nm}$, $P = 120 \text{ mW}$, Single Mode Hitachi HL6545MG

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

CHARACTERISTIC	SYMBOL	RATING
Optical Output Power (CW)	P_O	130 mW
Pulse Optical Output Power	$P_{O(\text{pulse})}$	300 mW*
LD Reverse Voltage	$V_{R(\text{LD})}$	2 V
CW Operation Case Temperature	T_{CW}	-10 to +75 °C
Pulse Operation Case Temperature	T_{pulse}	-10 to +75 °C
Storage Temperature	T_{STG}	-40 to +85 °C

*Note: Pulse width = 30 ns, duty = 35%

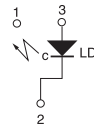
Characteristics ($T_C = 25^\circ\text{C}$, $P = 120 \text{ mW}$)

CHARACTERISTIC	SYMBOL	MIN	TYP.	MAX
Threshold Current	I_{th}	–	55 mA	75 mA
Operation Current	I_{OP}	–	170 mA	210 mA
Operation Voltage	V_{OP}	2.45 V	2.6 V	3.0 V
Lasing Wavelength	λ_p	652 nm	660 nm	664 nm
Beam Divergence (FWHM)	$\theta_{//}$	7.5°	10°	12°
	θ_{\perp}	15°	17°	19°
Astigmatism ($P_O = 5 \text{ mW}$)	A_s	–	1 μm	–

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

Pin Description

- no connection
- laser cathode
- laser anode



OPEN PIN CODE
(Compatible with
Styles B & C)



CAUTION:
ELECTROSTATIC
SENSITIVE

NEW
product

- Ø5.6 mm Package
- 1 μm Astigmatism @ 5 mW
- 170 mA (Typ.) Operating Current

ITEM#	£*	€*	RMB*
	1-5 PCS	1-5 PCS	1-5 PCS
HL6545MG	£ 50.03	€ 64.53	¥ 611.90

*For quantities over 5 pieces, please call a local office for pricing.

ITEM#	PRICE 1-5 PCS	PRICE 6-10 PCS	PRICE 11-20 PCS	DESCRIPTION
HL6545MG	\$ 72.50	\$ 61.63	\$ 50.75	Hitachi 660 nm, 120 mW

$\lambda = 670 \text{ nm}$, $P = 5 \text{ mW}$, Single Mode Hitachi HL6724MG

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

CHARACTERISTIC	SYMBOL	RATING
Optical Output Power (CW)	P_O	5 mW
Optical Output Power (Pulse)	P_O	6 mW*
LD Reverse Voltage	$V_{R(\text{LD})}$	2 V
PD Reverse Voltage	$V_{R(\text{PD})}$	30 V
Operation Case Temperature	T_C	-10 to 50 °C
Storage Temperature	T_{STG}	-40 to 85 °C

*Note: Pulse width $\leq 1 \mu\text{s}$, duty $\leq 50\%$

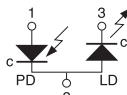
Characteristics ($T_C = 25^\circ\text{C}$, $P = 5 \text{ mW}$)

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

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

Pin Description

- monitor diode anode
- common case
- laser cathode



PIN CODE 5A



CAUTION:
ELECTROSTATIC
SENSITIVE

- 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 Astigmatism @ 5 mW

ITEM#	£*	€*	RMB*
	1-5 PCS	1-5 PCS	1-5 PCS
HL6724MG	£ 15.77	€ 20.34	¥ 192.86

*For quantities over 5 pieces, please call a local office for pricing.

ITEM#	PRICE 1-5 PCS	PRICE 6-10 PCS	PRICE 11-20 PCS	DESCRIPTION
HL6724MG	\$ 22.85	\$ 21.71	\$ 19.43	Hitachi 670 nm, 5 mW

$\lambda = 670 \text{ nm}$, $P = 5 \text{ mW}$, Single Mode Sanyo DL3149-057

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

CHARACTERISTIC	SYMBOL	RATING
Optical Output Power (CW)	P_O	7 mW
LD Reverse Voltage	$V_{R(\text{LD})}$	2 V
PD Reverse Voltage	$V_{R(\text{PD})}$	30 V
Operation Case Temperature	T_C	-10 to 60 °C
Storage Temperature	T_{STG}	-40 to 85 °C

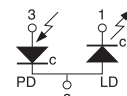
Characteristics ($T_C = 25^\circ\text{C}$, $P = 5 \text{ mW}$)

Characteristic	SYMBOL	MIN	TYP.	MAX
Threshold Current	I_{th}	–	25 mA	35 mA
Operating Current	I_{OP}	–	40 mA	45 mA
Operating Voltage	V_{OP}	–	2.3 V	2.6 V
Lasing Wavelength	λ_p	660 nm	670 nm	678 nm
Beam Divergence (FWHM)	$\theta_{//}$	6.5°	8°	10°
	θ_{\perp}	25°	30°	35°
Monitor Current	I_m	0.5 mA	1.5 mA	2.0 mA

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

Pin Description

- laser cathode
- common case
- monitor diode anode



PIN CODE 5A



CAUTION:
ELECTROSTATIC
SENSITIVE

- Ø5.6 mm Package
- AlGaInP Index-Guided MQW Structure
- 8 μm Astigmatism @ 7 mW
- High Operating Temperature of 5 mW at 60 °C

ITEM#	£*	€*	RMB*
	1-5 PCS	1-5 PCS	1-5 PCS
DL3149-057	£ 10.56	€ 13.62	¥ 129.14

*For quantities over 5 pieces, please call a local office for pricing.

ITEM#	PRICE 1-5 PCS	PRICE 6-10 PCS	PRICE 11-20 PCS	DESCRIPTION
DL3149-057	\$ 15.30	\$ 13.47	\$ 10.26	Sanyo 670 nm, 5 mW

All laser diodes are extremely electrostatic sensitive; see page 1244 for our selection of antistatic products.

