

Laser Diode Line Up

Part Number	Product ID code *4	Internal Circuit *5	Maximum Ratings		Optical and Electrical Characteristics (typical)						
			Po (mW)	Top (°C)	Po (mW)	Ith (mA)	Iop (mA)	Is (mA)	λp (nm)	θ// (°)	θ⊥ (°)
HL37016GN (UD) *1	MV	T.B.D	250	20 to 30	200	200	390	(T.B.D)	375	19*3	40*3
HL40041MG*1	KP	CC	150	-10 to 50	150	60	150	0.15	404	13*3	45*3
HL40053MG*1	KR	FN	500	0 to 30	400	110	370	-	404	13*3	42*3
HL40071MG	KX	CC	360	0 to 70	300	50	280	0.09	405	6	15
HL40033G*1	KQ	FN	1,100	0 to 30	1,000	320	1,000	-	405	13*3	42*3
HL40063MG*1	MD	FN	700	0 to 30	600	140	600	-	405	13*3	42*3
HL40065MG*1	KY	BC	700	0 to 30	600	140	600	2	405	13*3	42*3
HL40085G*1	KZ	BC	1,100	0 to 30	1,000	320	1,000	(T.B.D)	405	13*3	42*3
HL40103HD (UD) *1	MT	FN	3,500*2	0 to 30	3,500*2	(T.B.D)	(T.B.D)	-	405	(T.B.D)	(T.B.D)
HL40115MG (UD) *1	MU	BC	700	0 to 30	600	140	550	2	405	13*3	42*3
HL63163DG	JY	FN	100	-10 to 40	100	70	170	-	633	8.5	18
HL63101MG	JL	CC	7	-10 to 60	5	15	20	0.2	637	8	34
HL63102MG	JM	AC	7	-10 to 60	5	15	20	0.2	637	8	34
HL63142DG	JQ	AC	120	-10 to 50	100	50	140	0.3	637	8	18
HL6312G	DF	AC	5	-10 to 50	5	45	55	0.4	638	8	31
HL6354MG	EU	AC	7	-10 to 50	5	20	27	0.4	638	8	25
HL6355MG	EW	CC	7	-10 to 50	5	20	27	0.4	638	8	25
HL6319G	DT	CC	10	-10 to 50	10	50	70	0.17	638	8	31
HL6320G	DU	AC	10	-10 to 50	10	50	70	0.17	638	8	31
HL6321G	HV	CC	15	-10 to 50	15	55	85	0.2	638	8	30
HL6322G	HW	AC	15	-10 to 50	15	55	85	0.2	638	8	30
HL63603TG	JP	FN	120 (90)	-10 to 50 (50 to 60)	120	50	165	-	638	8.5	18
HL63153AT	JT	FN	150 (120)	-10 to 50 (50 to 60)	150	75	230	-	638	8.5	18
HL63133DG	JN	FN	170	-10 to 40	170	60	250	-	638	9	17
HL63193MG*1	JX	FN	700 (550)	-10 to 30 (30 to 40)	700	200	820	-	638	9	35
HL63283HD*1	ML	FN	1,200 (1,500*2)	-10 to 45	1,200	340	1,300	-	637	10	33
HL63290HD*1	MM	FN	2,200*6 (2,500*2,*6)	-10 to 45 (-10 to 55*2)	2,000	600	-	-	638	10	33
HL63392DG	ME	AC	200	-10 to 60	200	60	245	0.8	638	8.5	14
HL63520HD (UD) *1	MQ	FN	2,400 (3,500*2)	-10 to 55	2,400 (3,500*2)	570	2,400 (3,300*2)	-	638	10	33
HL6358MG	HB	AC	12	-10 to 50	10	30	40	1	639	8	21
HL6359MG	HC	CC	12	-10 to 50	10	30	40	1	639	8	21
HL6395MG	JC	CC	12	-10 to 60	10	45	55	0.07	639	9	21
HL6396MG	JD	AC	12	-10 to 60	10	45	55	0.07	639	9	21
HL6360MG	HD	AC	25	-10 to 50	20	45	65	0.2	639	9	21
HL6361MG	HE	CC	25	-10 to 50	20	45	65	0.2	639	9	21
HL6397MG	JE	CC	25	-10 to 60	20	45	65	0.2	639	9	21
HL6398MG	JF	AC	25	-10 to 60	20	45	65	0.2	639	9	21
HL6323MG	AU	AC	35	-10 to 50	30	45	95	0.15	639	8.5	30
HL6362MG	EZ	AC	45	-10 to 50	40	45	90	0.3	640	10	21
HL6363MG	HA	CC	45	-10 to 50	40	45	90	0.3	640	10	21
HL6364DG	HF	AC	65	-10 to 50	60	65	125	0.4	642	10	21
HL6365DG	HG	CC	65	-10 to 50	60	65	125	0.4	642	10	21
HL6366DG	HJ	AC	90	-10 to 50	80	80	155	0.3	642	10	21

Part Number	Product ID code *4	Internal Circuit	Maximum Ratings		Optical and Electrical Characteristics (typical)						
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HL6367DG	HK	CC	90	-10 to 50	80	80	155	0.3	642	10	21
HL6385DG	HS	LN	150	-10 to 40	150	110	280	-	642	9	17
HL65014DG	CY	LN	150	-10 to 40	150	110	280	-	(648,5)	9	17
HL6501MG	W	CC	50*2	-10 to 60	30	45	85	0.2	658	8.5	22
HL6544FM	CT	FN	130	-10 to 60	50	60	115	-	660	10	17
HL65051DG	CZ	CC	130	-10 to 60	120	60	175	0.4	660	10	17
HL6545MG	CE	LN	300*2	-10 to 75	120	60	175	-	660	10	17
HL6714G	DD	AC	10	-10 to 50	10	35	50	0.8	670	8	22
HL6748MG	CP	AC	10	-10 to 60	10	20	30	1	670	8	25
HL6756MG	CQ	AC	15	-10 to 60	15	20	35	1.5	670	8	24
HL6750MG	CK	CC	55	-10 to 70	50	30	75	0.15	685	9	21
HL6738MG	Q	CC	35	-10 to 70	30	45	90	0.1	690	8.5	19
HL7001MG	FX	CC	50	-10 to 60	40	30	75	0.15	705	9	18
HL7002MG	FY	AC	50	-10 to 60	40	30	75	0.15	705	9	18
HL7301MG	CU	CC	50	-10 to 60	40	30	75	0.3	730	9	18
HL7302MG	CV	AC	50	-10 to 60	40	30	75	0.3	730	9	18
HL8337MG	FR	AC	50	-10 to 60	50	20	75	0.25	830	9	22
HL8338MG	FS	CC	50	-10 to 60	50	20	75	0.25	830	9	22
HL8340MG	FT	AC	50	-10 to 60	50	20	75	0.25	852 (±10)	9	22
HL8341MG	FU	CC	50	-10 to 60	50	20	75	0.25	852 (±10)	9	22
HL8342MG	FV	AC	50	-10 to 60	50	20	75	0.25	852 (±4)	9	22
HL8343MG	FW	CC	50	-10 to 60	50	20	75	0.25	852 (±4)	9	22

(UD) : Under development (New) : New product

*1 Multi transverse mode (The other products without *1 are single transverse mode)

*2 Pulse optical power and pulse operation

*3 Full angle,%

*4 Please refer to "Marking" section on page 5

*5 Please refer to the following diagram for internal circuit

*6 Typical PO at maximum current rating

Part Numbering

Example 1 :
HL6354MG-A

HL 63 54 MG -A

(a)

(b)

(c)

(e)

(f)

Example 2 :
HL63101MG

HL 63 10 1 MG

(a)

(b)

(c)

(d)

(e)

(a) HL: UOS Laser Diode

(b) Wavelength: (first 2-number of wavelength)
40:404nm
63: 633~642nm
65: 655~660nm
67: 670~680nm
70: 705nm
73: 730nm
83: 830nm (or 850nm)

(c) 54: Serial Number

(d) 1: Internal Circuit (assigned either 1, 2, 3, 4or 5)

(e) MG: Package Type (CAN package)
G, HD: ϕ 9.0mm
MG: ϕ 5.6mm(short can)
DG: ϕ 5.6mm (tall can)
TG: ϕ 3.8mm
AT : ϕ 3.8mm (tall can)

(f) -A: RoHS compliant*

* All of current available UOS are RoHS compliant

* All products with new numbering like example 2 are RoHS compliant. (Therefore, No "-A".)

Internal circuit diagram

1

CC Connection

2

AC Connection

3

FN Connection

4

LN Connection

5

BC Connection