## Laser Diode Line Up

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Code</th>
<th>Internal Circuit</th>
<th>Maximum Ratings</th>
<th>Optical and Electrical Characteristics (typical)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HL40063MG</td>
<td>KC</td>
<td></td>
<td>350</td>
<td>200 60 150 0.05 404 0.5 425 0.5 425</td>
</tr>
<tr>
<td>HL40065MG*1</td>
<td>KC</td>
<td></td>
<td>350</td>
<td>200 60 150 0.05 404 0.5 425 0.5 425</td>
</tr>
<tr>
<td>HL40065MG</td>
<td>KG</td>
<td></td>
<td>350</td>
<td>200 60 150 0.05 404 0.5 425 0.5 425</td>
</tr>
<tr>
<td>HL40085G</td>
<td>KC</td>
<td></td>
<td>350</td>
<td>200 60 150 0.05 404 0.5 425 0.5 425</td>
</tr>
<tr>
<td>HL63283HD*1</td>
<td>KC</td>
<td></td>
<td>350</td>
<td>200 60 150 0.05 404 0.5 425 0.5 425</td>
</tr>
<tr>
<td>HL63290HD*1</td>
<td>KC</td>
<td></td>
<td>350</td>
<td>200 60 150 0.05 404 0.5 425 0.5 425</td>
</tr>
<tr>
<td>HL63392DG</td>
<td>KC</td>
<td></td>
<td>350</td>
<td>200 60 150 0.05 404 0.5 425 0.5 425</td>
</tr>
</tbody>
</table>

**LED: Under development (New): New product
*1: Multi-transverse mode (The other products without *1 are single transverse mode)
*2: Full power output and lumen condition
*3: Full power
*4: Multi-transverse mode
*5: Please refer to the following diagram for internal circuit
*6: Typical at maximum current rating**

### Part Numbering

**Example 1:** HL63 54 MG –A
- **HL63:** UOS Laser Diode
- **54:** Wavelength (nm)
- **MG:** Package Type (CAN package)
- **-A:** Configuration

**Example 2:** HL63 10 1 MG
- **HL63:** UOS Laser Diode
- **10:** Wavelength (nm)
- **1:** Package Type (CAN package)
- **MG:** Configuration

<table>
<thead>
<tr>
<th>1: Configurations</th>
<th>2: CAN Outline</th>
<th>3: UOS Laser Diode</th>
<th>4: CAN Outline</th>
<th>5: UOS Laser Diode</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

**Part Numbering:**
- **HL:** UOS Laser Diode
- **63:** Wavelength (nm)
- **54:** Package Type (CAN package)
- **-A:** Configuration
### Laser Diode Line Up

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<tbody>
<tr>
<td>HL400480MG*1</td>
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<td></td>
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<tr>
<td>HL400630MG*1</td>
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<td>HL400850MG*1</td>
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<tr>
<td>HL63283HD*1</td>
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<tr>
<td>HL63392DG</td>
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*1: Under development (New). New product

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### Part Number

**Example 1:** HL63 54 MG -A

- **(a)**: HL, UDS Laser Diode
- **(b)**: 63 μm
- **(c)**: Products with new numbering in line with the UDS Laser Diode family.

**Example 2:** HL63 10 1 MG

- **(a)**: HL, UDS Laser Diode
- **(b)**: 63 μm
- **(c)**: Products with new numbering in line with the UDS Laser Diode family.

**Notes:**
- All products are RoHS compliant.
- All products are 400mW with the exception of the 540mW model.
- Internal circuit diagram provided.
Marking

Package Type : MG, DG, G, FM, HD
combination of numerical and alphabetical letters are laser marked on cap.

1st line:
1st and 2nd letters:
Product identification code
- If code is one character, 1st line is 3 characters,
- Please refer to the Product ID code in the table on page 3-4
3rd letter: Year code
- The year code is the last number of the produced year,
- (eg. "15" means the year 2015)
4th letter: Month code
- The month code is marked with alphabet character, (see Table-1)

2nd line:
6th to 8th letters:
UOS internal management code

Package Type : TG, AT
combination of numerical and alphabetical letters are laser marked on cap.

1st line:
1st and 2nd letters:
Product identification code
- Please refer to the Product ID code in the table on page 3-4
3rd letter: Year code
- The year code is the last number of the produced year,
- (eg. "15" means the year 2015)
2nd line:
4th letter: Month code
- The month code is marked with alphabet character, (see Table-1)
5th to 8th letters:
UOS internal management code

Table-1: Month code

<table>
<thead>
<tr>
<th>Month</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
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<tbody>
<tr>
<td>Code</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
<td>G</td>
<td>H</td>
<td>J</td>
<td>K</td>
<td>L</td>
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Marking

Package Type: MG, DG, G, FM, HD

Combination of numerical and alphabetical letters are laser marked on cap.

1st line:
1st and 2nd letters: Product Identification code
5th letter: Year code
3rd letter: Year code
4th letter: Month code
5th to 8th letters: UOS internal management code

Package Type: TG, AT

Combination of numerical and alphabetical letters are laser marked on cap.

1st line:
1st and 2nd letters: Product Identification code
3rd letter: Year code
4th letter: Month code
5th to 8th letters: UOS internal management code

Table 1: Month code

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