## Part Numbering

Ushio Inc. (Ushio) defines part number as follows.

```
Example: HL6354MG-A
                    <u>HL 63 54 MG –A</u>
                    (a) (b) (c) (d) (e)
(a) HL: Ushio Laser Diode
(b) 63: Wavelength: (first 2-number of wavelength)
      -40: 400nm, 63: 635nm, 65: 655~660nm, 67: 670~680nm,
        70: 705nm, 73: 730nm, 83: 830nm (or 850nm)
(c) 54: Serial Number
(d) MG: Package Type (CAN package) Please refer to Fig2.
      - HD: \phi9.0mm, G: \phi9.0mm, MG: \phi5.6mm(short can), DG: \phi5.6mm (tall can),
       TG: 63.8mm
(e) -A: RoHS compliant*
      -A: RoHS compliant, <(Non; without –A)): No RoHS compliant>
* All of current available Ushio products are RoHS compliant.
Example: HL63101MG
                 <u>HL 63 10 1 MG</u>
                  (a) (b) (c) (d) (e)
(a) HL: Ushio Laser Diode
(b) 63: Wavelength: (first 2-number of wavelength)
      - 40: 404nm, 63: 635nm, 65: 655~660nm, 67: 670~680nm,
        70: 705nm, 73: 730nm, 83: 830nm (or 850nm)
(c) 10: Serial Number
(d) 1 : Internal Circuit. Please refer to Fig1.
(e) MG: Package Type (CAN package) Please refer to Fig2.
```

- HD: φ9.0mm, G: φ9.0mm, MG: φ5.6mm(short can) , DG: φ5.6mm (tall can), TG: φ3.8mm
- \* All products with new numbering are RoHS compliant.
  - (Therefore, No "-A".)

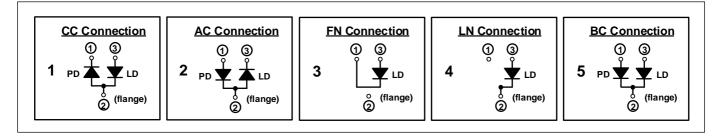


Figure 1 Number of Internal Circuit

## USHIO INC.

## Figure 2 Package dimensions

(e) TG

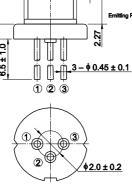
2

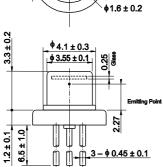
ـ

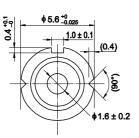
\$1.43 ± 0.2

 $0.3 \pm 0.2$ 

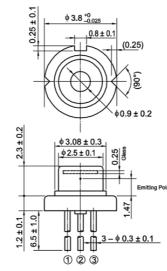


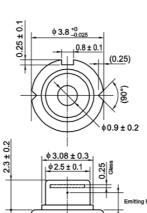


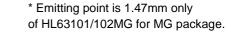




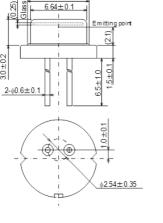
(a) HD







(c) MG



φ9.0 +0 -0.025

7.27±0.2

1.0.4

(06)

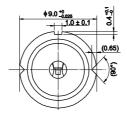
(0.65)

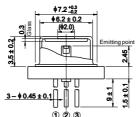
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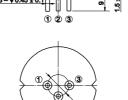
 $3.0 \pm 0.2$ 

1.0±0.1

(¢3.7)

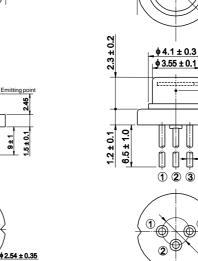






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(b) G



ф 5.6 <sup>+0</sup> \_0.025 0.4 +0.1 1.0 ± 0.1 (0.4) )**ම** \$1.6 ± 0.2 \_ ∳ 4.1 ± 0.3\_ ∳ 3.55 ± 0.1\_ 0.25 Glass 27 . (<sup>1</sup>) (<sup>1</sup>) + (<sup>1</sup>) + (<sup>3</sup>) (3 \$2.0 ± 0.2

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