

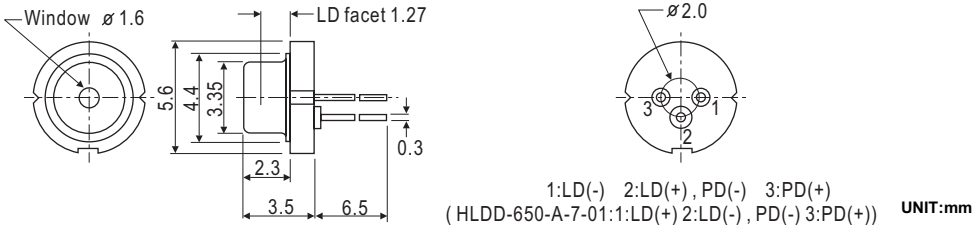


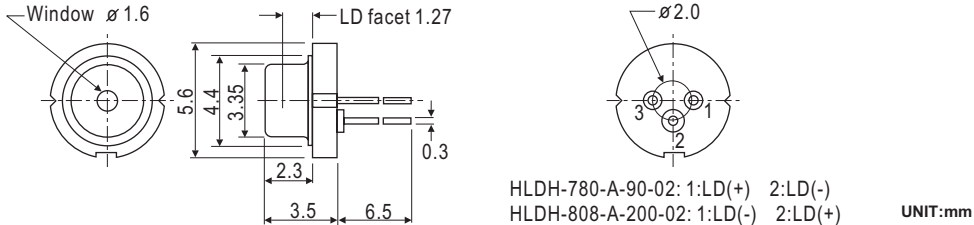
# Laser Products

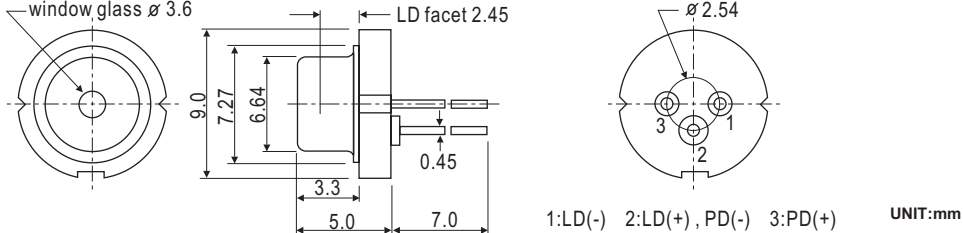
## Laser Diode

Ta=25°C

| Device No | Package | Operating temperature | Output power | Operating current | Monitor current | Laser wavelength | Beam divergence                |
|-----------|---------|-----------------------|--------------|-------------------|-----------------|------------------|--------------------------------|
|           |         | Topr                  | Po           | Iop               | Im              | $\lambda_p$      | $\theta_{//} / \theta_{\perp}$ |
|           |         | °C                    | mW           | mA                | mA              | nm               | deg                            |

|                                                                                   |                                            |                                                                                    |           |     |     |      |     |        |
|-----------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------|-----------|-----|-----|------|-----|--------|
|  |                                            |  |           |     |     |      |     |        |
| standard                                                                          | HLDD-650-A-7-01<br>(for DVD pickup header) | TO-18                                                                              | -10 ~ +70 | 7   | 25  | 0.2  | 650 | 8/28   |
|                                                                                   | HLDP-635-A-5-01                            | TO-18                                                                              | -10 ~ +40 | 5   | 32  | 0.1  | 635 | 7.5/33 |
|                                                                                   | HLDP-650-A-5-01                            | TO-18                                                                              | -10 ~ +50 | 5   | 25  | 0.25 | 650 | 8/28   |
|                                                                                   | HLDP-650-A-5-02                            | TO-18                                                                              | -10 ~ +50 | 5   | 25  | 0.2  | 650 | 9/28   |
|                                                                                   | HLDH-650-A-10-01                           | TO-18                                                                              | -10 ~ +50 | 10  | 28  | 0.3  | 650 | 9.5/28 |
| high power                                                                        | HLDH-660-A-20-01                           | TO-18                                                                              | -10 ~ +60 | 20  | 70  | 0.15 | 650 | 7/16   |
|                                                                                   | HLDH-660-A-50-01                           | TO-18                                                                              | -10 ~ +30 | 50  | 90  | 0.15 | 658 | 9/19   |
|                                                                                   | HLDH-780-A-90-01<br>(for CD player)        | TO-18                                                                              | -10 ~ +70 | 90  | 115 | 0.5  | 785 | 9/17   |
|                                                                                   | HLDH-808-B-200-01                          | TO-18                                                                              | -10 ~ +50 | 200 | 225 | -    | 808 | 11/42  |

|                                                                                     |                                     |                                                                                      |           |     |     |   |     |       |
|-------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------|-----------|-----|-----|---|-----|-------|
|  |                                     |  |           |     |     |   |     |       |
| high power                                                                          | HLDH-780-A-90-02<br>(for CD player) | TO-18                                                                                | -10 ~ +70 | 90  | 115 | - | 785 | 9/17  |
|                                                                                     | HLDH-808-B-200-02                   | TO-18                                                                                | -10 ~ +50 | 200 | 225 | - | 808 | 13/42 |

|                                                                                     |                    |                                                                                      |           |      |      |     |     |      |
|-------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------|-----------|------|------|-----|-----|------|
|  |                    |  |           |      |      |     |     |      |
| high power                                                                          | HLDH-808-B-500-01  | TO-5                                                                                 | -10 ~ +30 | 500  | 750  | 0.8 | 808 | 9/30 |
|                                                                                     | HLDH-808-B-1000-01 | TO-5                                                                                 | -10 ~ +30 | 1000 | 1400 | 1.5 | 808 | 9/30 |