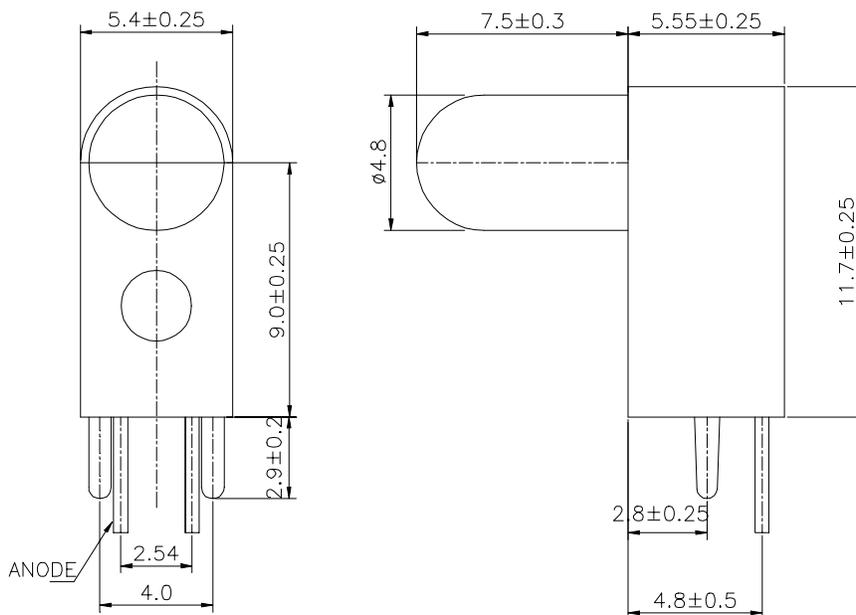




■ Package Dimension:



■ Notes:

1. All dimensions are in millimeters, tolerance is 0.25mm except being specified
2. Lead spacing is measured where the lead emerge from the package

| LED PART NO | Chip | | Lens Color |
|-------------|----------|---------------|--------------|
| | Material | Emitted Color | |
| 3313HD | GaP | Bright | Red Diffused |

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Device Number : DAE-219-001 REV: 1.0

PART NO : A2193B/HD ECN : Page: 2/5

■ Descriptions:

- 1.ARRAY=Plastic Holder+Combination of Lamps
- 2.The array will easily mount the applicable lamps on any panel

■ Features:

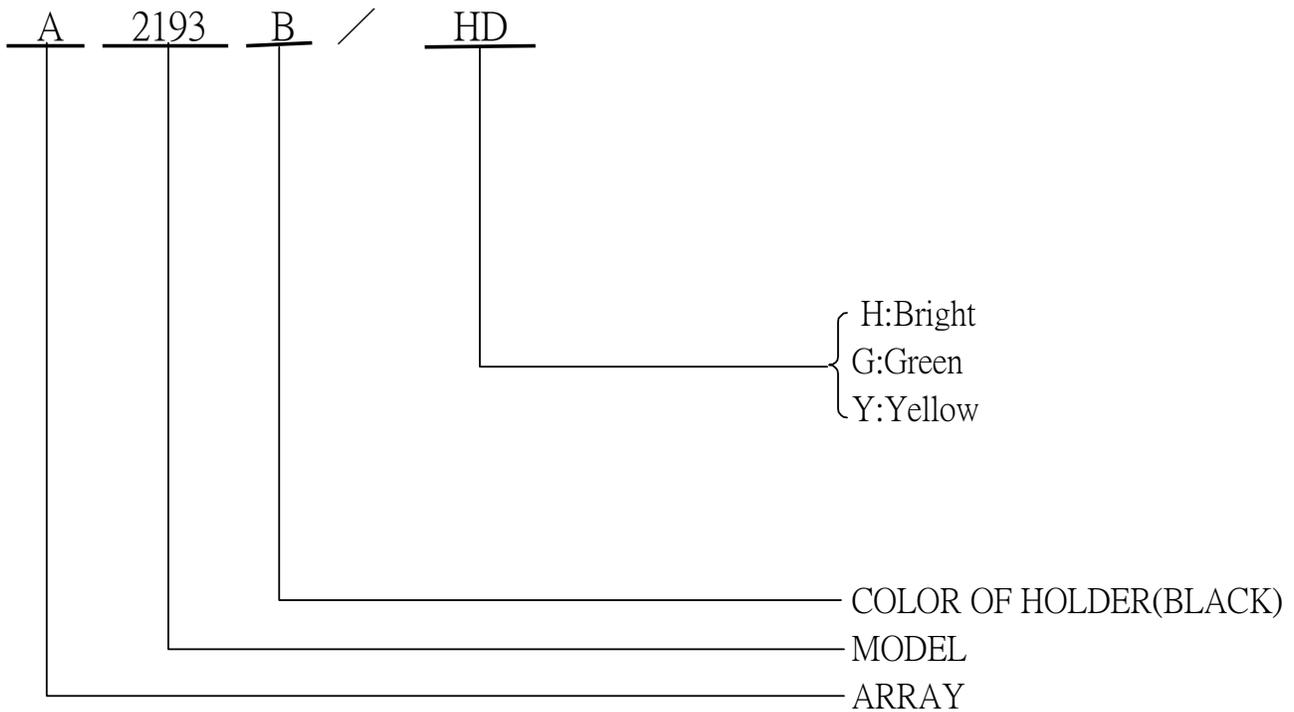
- 1.Low power consumption
- 2.High efficiency and low cost
- 3.Good control and free combinations on the colors of LED lamps
- 5.Good lock and easy to assembly
- 6.Stackable and easy to assembly
- 7.Stackable vertically and easy to assembly
- 8.Versatile mounting on PCB or panel
- 9.Stackable horizontally and easy to assembly

■ Applications:

- 1.Used as indicators of indicating the Degree, Functions, Positions etc, in electronic instruments.



■ LED LAMP ARRAYS SELECTION GUIDE:





■ Absolute Maximum Ratings at Ta = 25°C

| Parameter | Symbol | Rating | Unit |
|--|----------|-------------|------|
| Forward Current | IF | 15 | mA |
| Operating Temperature | Topr | -40 to +85 | °C |
| Storage Temperature | Tstg | -40 to +100 | °C |
| Soldering Temperature | Tsol | 260 ± 5 | °C |
| Power Dissipation | Pd | 45 | mW |
| Peak Forward Current(Duty 1/10 @ 1KHZ) | IF(Peak) | 50 | mA |
| Reverse Voltage | VR | 5 | V |

■ Electronic Optical Characteristics :

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|------------------------------|--------|------|------|------|------|-----------|
| Luminous Intensity | IV | 2.50 | 3.20 | / | mcd | IF= 10 mA |
| Viewing Angle | 2θ 1/2 | / | 45 | / | deg | IF= 10 mA |
| Peak Wavelength | λp | / | 697 | / | nm | IF= 10 mA |
| Dominant Wavelength | λd | / | 650 | / | nm | IF= 10 mA |
| Spectrum Radiation Bandwidth | Δλ | / | 90 | / | nm | IF= 10 mA |
| Forward Voltage | VF | 1.5 | 2.0 | 2.4 | V | IF= 10 mA |
| Reverse Current | IR | / | / | 10 | μA | VR= 5 V |



EVERLIGHT ELECTRONICS CO.,LTD.

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■ Typical Electro-Optical Characteristic Curves

