

# HTM4004B Series

## Display Feature

| Item             | Value                              |
|------------------|------------------------------------|
| Structure        | COB With Metal Frame               |
| LCD Display Mode | DFSTN, Negative, Transflective, 6H |
| Driving Method   | 1/16 duty, 1/5 bias                |
| Backlight        | White LED Backlight                |
| Control IC       | S6A0069 or Equivalent              |

## Mechanical Data (unit : mm)

| Item         | Value                   |
|--------------|-------------------------|
| Outline      | 190.0 x 54.0 x 14.9Max. |
| Viewing Area | 147.0 x 29.5            |
| Active Area  | 140.47 x 23.18          |
| Dot Pitch    | 0.57 x 0.62             |
| Dot Size     | 0.5 x 0.55              |

## Absolute Maximum

| Item                      | MIN. | MAX. |
|---------------------------|------|------|
| Operating Voltage(V)      | 0    | 6.0  |
| Operating Temperature(°C) | -20  | +70  |
| Storage Temperature(°C)   | -30  | +80  |

## Electrical Characteristics

| Item                  | Symbol            | MIN.               | TYP. | MAX.            |
|-----------------------|-------------------|--------------------|------|-----------------|
| Operating Voltage(V)  | V <sub>DD</sub>   | 4.7                | 5.0  | 5.3             |
| Input High Voltage(V) | V <sub>IH</sub>   | 0.7V <sub>DD</sub> | -    | V <sub>DD</sub> |
| Input Low Voltage(V)  | V <sub>IL</sub>   | V <sub>SS</sub>    | -    | 0.5             |
| Operating Current(mA) | I <sub>DD</sub>   | -                  | 1.0  | 3.0             |
| Forward Voltage(V)    | V <sub>f</sub> BL | -                  | 5.0  | -               |
| Forward Current(mA)   | I <sub>f</sub> BL | -                  | 60   | 80              |

★ Various LCD Type Available

★ Various Backlight Color Available

## Terminal Functions

| No | Pin Name | Descriptions                  |
|----|----------|-------------------------------|
| 1  | VSS      | Negative Power Supply, (0V)   |
| 2  | VDD      | Positive Power Supply         |
| 3  | V0       | LCD Contrast Reference Supply |
| 4  | RS       | Register Select               |
| 5  | R/W      | Read/Write Control Bus        |
| 6  | NC       | No Connection                 |
| 7  | E1       | Data Enable                   |
| 8  | E2       | Data Enable                   |
| 9  | DB0      | Data Bus Line                 |
| :  | :        |                               |
| 16 | DB7      |                               |
| 17 | BLA      | Backlight Positive Supply     |
| 18 | BLK      | Backlight Negative Supply     |

## Outline Drawing

