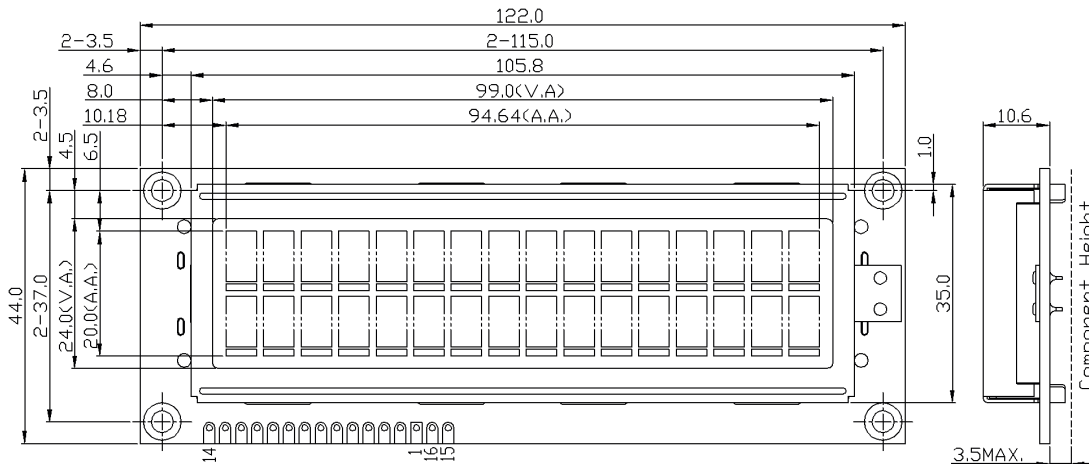


OUTLINE DRAWING



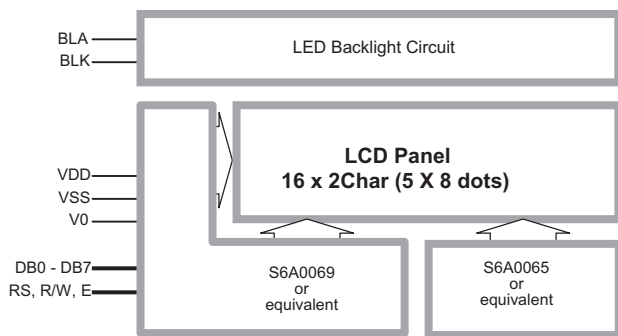
TERMINAL FUNCTIONS

| Pin | Name | Descriptions   |
|-----|------|--|
| 1   | VSS  | 0V Power Supply, Ground  |
| 2   | VDD  | Positive Power Supply  |
| 3   | V0   | LCD Contrast Reference Supply  |
| 4   | RS   | Register Select<br>RS=HIGH: Transferring Display Data<br>RS=LOW: Transferring Instruction Data |
| 5   | R/W  | Read/Write Control Bus<br>R/W=HIGH: Read Mode Selected<br>R/W=LOW: Write Mode Selected         |
| 6   | E    | Data Enable  |
| 7   | DB0  | Bi-directional Tri-state Data Bus  |
| ... | ...  | ...  |
| 14  | DB7  |  |
| 15  | BLK  | LED Backlight Negative Power Supply  |
| 16  | BLA  | LED Backlight Positive Power Supply  |

DISPLAY CHARACTERISTICS

| Item                   | Value                            |
|------------------------|----------------------------------|
| LCD Display Mode       | STN-GRAY, Positive, Transmissive |
| Viewing Angle          | 6:00                             |
| Driving Method         | 1/16 duty, 1/5 bias              |
| Backlight <sup>#</sup> | YG LED Backlight                 |

BLOCK DIAGRAM



MECHANICAL DATA

| Item                 | Value                  |
|----------------------|------------------------|
| Outline (mm)         | 122.0 x 44.0 x 14.1MAX |
| Viewing Area (mm)    | 99.0 x 24.0            |
| Active Area (mm)     | 94.64 x 20.0           |
| Character Pitch (mm) | 0.98 x 1.16            |
| Character Size (mm)  | 0.945 x 1.125          |

ABSOLUTE MAXIMUM

| Item                       | Symbol          | Min | Max |
|----------------------------|-----------------|-----|-----|
| Operating Voltage (V)      | V <sub>DD</sub> | 0   | 6.0 |
| Operating Temperature (°C) | T <sub>OP</sub> | -20 | +70 |
| Storage Temperature (°C)   | T <sub>ST</sub> | -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> | 0.8 V <sub>DD</sub> | -   | V <sub>DD</sub> |
| Input Low Voltage (V)  | V <sub>IL</sub> | SS                  | -   | 0.5             |
| Operating Current (mA) | I <sub>DD</sub> | -                   | 2.0 | 5.0             |

BACKLIGHT CHARACTERISTICS

| Item                 | Symbol            | Min | Typ | Max |
|----------------------|-------------------|-----|-----|-----|
| Forward Voltage (V)  | V <sub>fBLA</sub> | -   | 5.0 | -   |
| Forward Current (mA) | I <sub>fBLA</sub> | -   | 240 | 360 |

LMB162G series

|             | Highlight                 |             |
|-------------|---------------------------|-------------|
|             | LCD Mode                  | # Backlight |
| LMB162GBY   | STN-YG<br>(BLK, BLA Swap) | YG LED      |
| LMB162GDA   | STN-Gray                  | Nil         |
| LMB162GDC*  | STN-Gray                  | YG LED      |
| LMB162GDC-4 | STN-Gray                  | White LED   |
| LMB162GFC   | STN-Blue                  | White LED   |

For similar product or (semi) custom made LCD module, please visit our web site or contact us.

\*The above product information is based on this model.