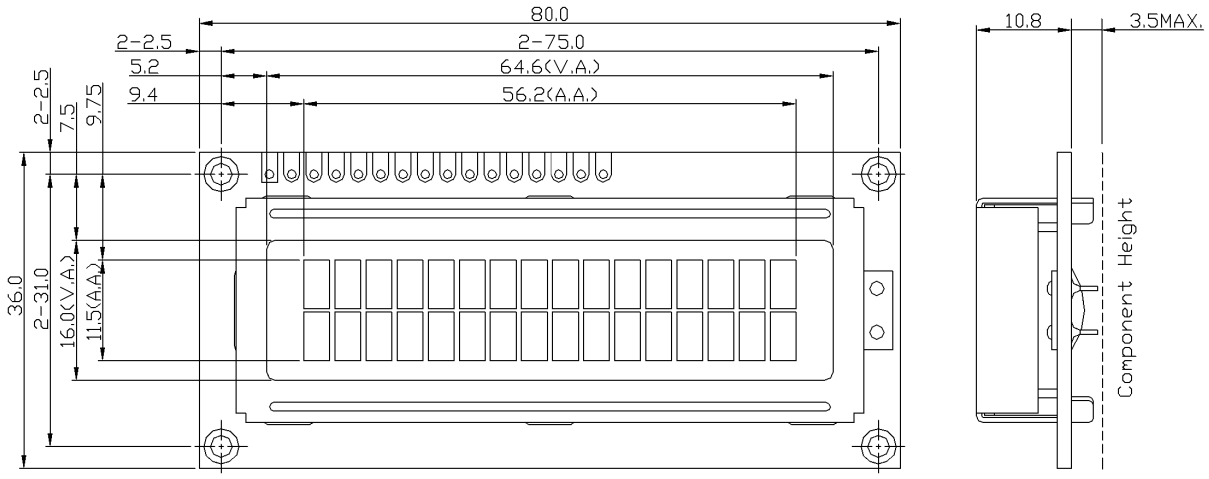
## OUTLINE DRAWING



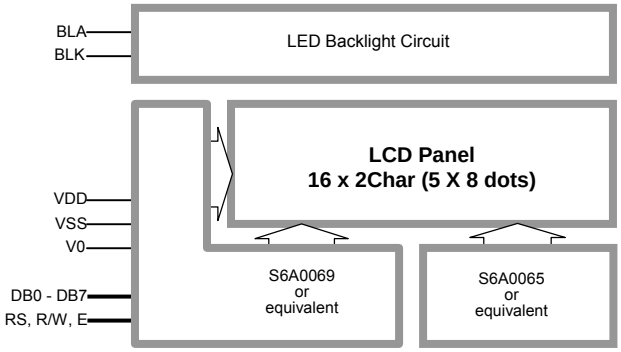

## TERMINAL FUNCTIONS

| 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 | BLA | LED Backlight Positive Power Supply |
| 16 | BLK | LED Backlight Negative Power Supply |

## DISPLAY CHARACTERISTICS

| Item | Value |
|---|---|
| LCD Display Mode* | STN-YG, Positive, Transflective |
| Viewing Angle | 6:00 |
| Driving Method | 1/16 duty, 1/5 bias |
| Backlight※ | YG LED Backlight |

## BLOCK DIAGRAM




## MECHANICAL DATA

| Item | Value |
|---|---|
| Outline (mm) | 80.0 x 36.0 x 14.3MAX |
| Viewing Area (mm) | 64.6 x 16.0 |
| Active Area (mm) | 56.2 x 11.5 |
| Character Pitch (mm) | 0.6 x 0.7 |
| Character Size (mm) | 0.55 x 0.65 |

## ABSOLUTE MAXIMUM

| Item | Symbol | Min | Max |
|---|---|---|---|
| Operating Voltage (V) | $V_{DD}$ | 0 | 6.0 |
| Operating Temperature (°C) | $T_{OP}$ | -20 | +70 |
| Storage Temperature (°C) | $T_{ST}$ | -30 | +80 |

## ELECTRICAL CHARACTERISTICS#

| Item | Symbol | Min | Typ | Max |
|---|---|---|---|---|
| Operating Voltage (V) | $V_{DD}$ | 4.7 | 5.0 | 5.3 |
| Input High Voltage (V) | $V_{OH}$ | 0.8 $V_{DD}$ | - | $V_{DD}$ |
| Input Low Voltage (V) | $V_{OL}$ | $V_{SS}$ | - | 0.5 |
| Operating Current (mA) | $I_{DD}$ | - | 1.3 | 3.0 |

## BACKLIGHT CHARACTERISTICS

| Item | Symbol | Min | Typ | Max |
|---|---|---|---|---|
| Forward Voltage (V) | $Vf_{BLA}$ | - | 4.9 | - |
| Forward Current (mA) | $If_{BLA}$ | - | 100 | 150 |

## LMB162A series

| Major Models | Highlight | | |
|---|---|---|---|
| | *LCD Mode | #Voltage | ※Backlight |
| LMB162ABA | STN-YG | 5.0V | Nil |
| LMB162ABC* | STN-YG | 5.0V | YG-LED |
| LMB162ABC-1 | STN-YG | 3.3V | YG-LED |
| LMB162ADC | STN-Gray | 5.0V | White-LED |
| LMB162ADC-1 | STN-Gray | 5.0V | YG-LED |
| LMB162ADC-2 | STN-Gray | 3.0V | White-LED |
| LMB162ADC-3 | STN-Gray | 5.0V | Amber-LED |
| LMB162AFC | STN-Blue | 5.0V | White-LED |
| LMB162AFC-2 | STN-Blue | 3.0V | White-LED |
| LMB162AGC-1 | FSTN-Neg | 5.0V | 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.