

# BG240128A



## Feature

1. SMT PCB with metal frame
2. Built-in controller T6963C
3. 1/128 duty cycle
4. Option: negative voltage
5. Option: LED Green, white B/L, EL B/L, CCFL

## Mechanical Data

| Item             | Standard Value | Unit |
|------------------|----------------|------|
| Module Dimension | 170.0 x 103.5  | mm   |
| Viewing Area     | 132.0 x 76.0   | mm   |
| Dot Size         | 0.47 x 0.47    | mm   |
| Dot Pitch        | 0.5 x 0.5      | mm   |

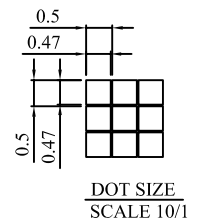
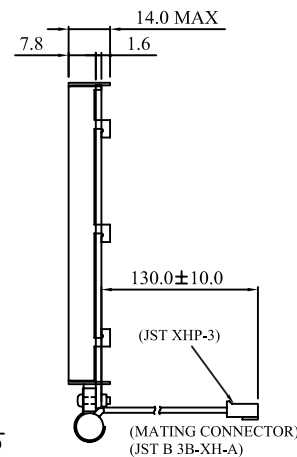
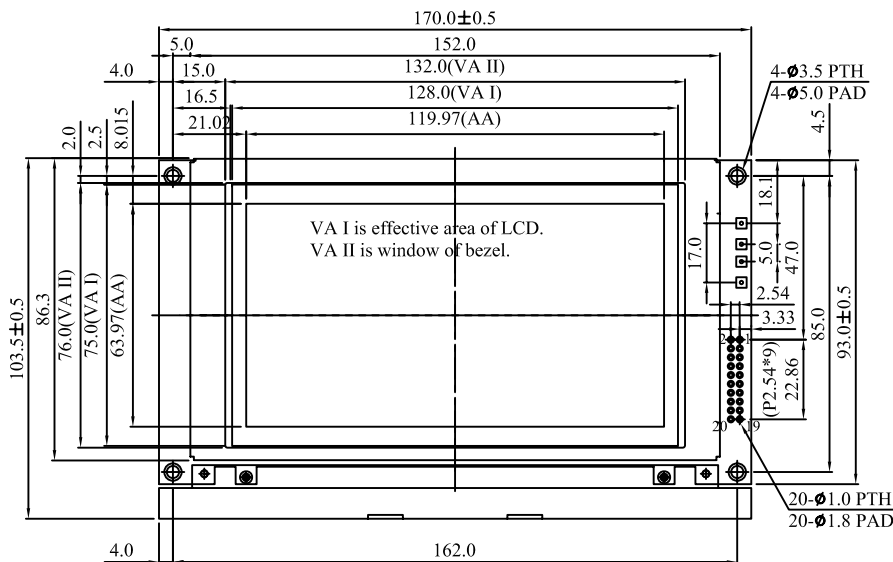
## Pin Assignment

| Pin   | Symbol | Function                                     |
|-------|--------|--|
| 1     | FGND   | Frame GND                                    |
| 2     | Vss    | Power supply(GND)                            |
| 3     | Vdd    | Power supply for logic(+5V)                  |
| 4     | Vo     | Contrast adjustment                          |
| 5     | /WR    | Data write                                   |
| 6     | /RD    | Data read                                    |
| 7     | /CE    | Chip enable                                  |
| 8     | C/D    | Code/Data                                    |
| 9     | NC/Vee | No connection/Negative voltage output -16.0V |
| 10    | /RST   | Controller reset                             |
| 11~18 | DB0-7  | Data bus line                                |
| 19    | FS     | Font selection (H: 6x8, L:8x8)               |
| 20    | RV     | Reverse (H: reverse L: normal)               |

## Electronic Characteristics

| Item                     | Symbol | Condition | Typical Value | Unit |
|--------------------------|--------|-----------|---------------|------|
| Input Voltage            | Vdd    | Vdd = +5V | 5.0           | V    |
| Supply Current           | Idd    | Vdd = +5V | 45            | mA   |
| LCD Driving Voltage      | Vdd-Vo | 25°C      | 18            | V    |
| CCFL Lamp Supply Voltage | VL     | 25°C      | 390           | Vrms |
| CCFL Lamp Supply Current | IL     | 25°C      | 5.0           | mA   |

## Dimension



CCFL B/L