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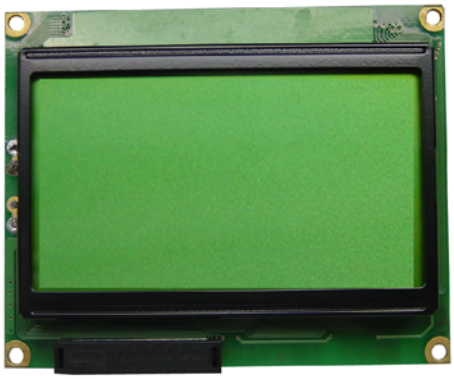
BOLYMIN

# BG12864F

## Feature

1. SMT with metal frame
2. Built-in controller T6963
3. +5V single power supply, with built-in negative voltage
4. 1/64 duty cycle
5. Option: LED array/edge B/L, EL B/L
6. Option: external negative voltage



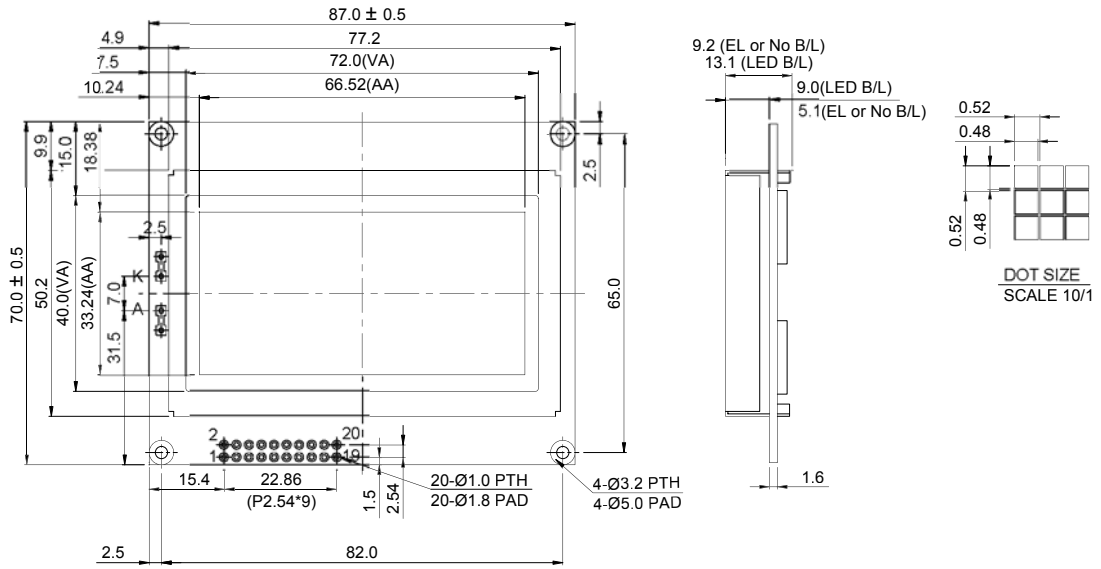
## Mechanical Data

| Item | Standard Value | Unit |
|---|---|---|
| Module Dimension | 87.0 x 70.0 | mm |
| Viewing Area | 72.0 x 40.0 | mm |
| Dot Size | 0.48 x 0.48 | mm |
| Dot Pitch | 0.52 x 0.52 | mm |

## Pin Assignment

| Pin | Symbol | Function |
|---|---|---|
| 1 | Vss | GND |
| 2 | Vdd | Power supply(+5V) |
| 3 | Vo | Contrast adjustment |
| 4 | C/D | Command/data read/write |
| 5 | /RD | Data read |
| 6 | /WR | Data write |
| 7~14 | DB0~7 | Data bus line |
| 15 | /CE | Chip enable |
| 16 | /RST | Reset signal |
| 17 | Vee | Negative voltage output -5V |
| 18 | MD2 | Column No. selection (H:32 column, L: 40 columns) |
| 19 | FS | Font selection (H:6x8,L:8x8) |
| 20 | HLT | H: normal L: stop clock oscillation |

## Electronic Characteristics

| Item | Symbol | Condition | Typical Value | Unit |
|---|---|---|---|---|
| Input Voltage | Vdd | Vdd = +5V | 5.0 | V |
| Supply Current | Idd | Vdd = +5V | 9.7 | mA |
| LCD Driving Voltage | Vdd-Vo | 25°C | 8.5 | V |
| LED Forward Voltage | Vf | 25°C | 4.2 | V |
| LED Forward Current | If | 25°C | 330 | mA |
| EL Power Voltage | Vel | Vel=110Vac/400Hz | | V |

## Dimension