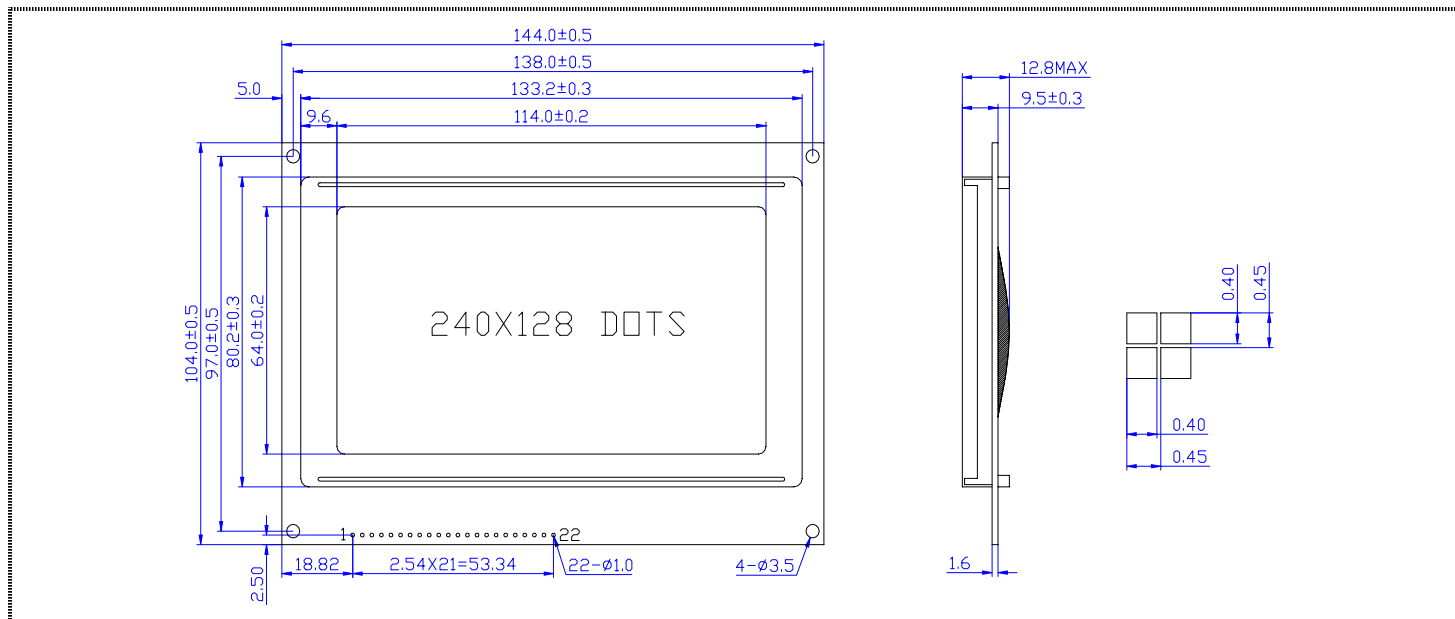


# HF240128GB

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## MECHANICAL DATA

| Item               | Nominal Dimensions   | Unit |
|--------------------|----------------------|------|
| Module Size(W×H×T) | 144.0 × 104.0 × 12.8 | mm   |
| Viewing Area(W×H)  | 114.0 × 64.0         | mm   |
| Dot Pitch(W×H)     | 0.45 × 0.45          | mm   |
| Dot Size(W×H)      | 0.40 × 0.40          | mm   |

## PIN CONNECTIONS

| PIN | Symbol | Level | Function                      |
|-----|--------|-------|-------------------------------|
| 1   | FG     | —     | Frame Ground                  |
| 2   | VSS    | —     | GND(0V)                       |
| 3   | VDD    | —     | Supply Voltage for Logic(+5V) |
| 4   | V0     | —     | Power supply for LCD          |
| 5   | /WR    | L     | Write                         |
| 6   | /RD    | L     | Read                          |
| 7   | /CS    | L     | Chip select                   |
| 8   | RS     | H/L   | H: Data ; L: Instruction Code |
| 9   | /RESET | L     | Reset Signal (Active LOW )    |
| 10  | DB0    | H/L   | Data Bus Line                 |
| 11  | DB1    | H/L   |                               |
| 12  | DB2    | H/L   |                               |
| 13  | DB3    | H/L   |                               |
| 14  | DB4    | H/L   |                               |
| 15  | DB5    | H/L   |                               |
| 16  | DB6    | H/L   |                               |
| 17  | DB7    | H/L   |                               |
| 18  | BUSY   | H/L   | Busy Signal                   |
| 19  | VEE    | —     | Negative Voltage to LCD       |
| 20  | LEDA   | —     | Backlight Power (+5V)         |
| 21  | LEDK   | —     | Backlight Power ( 0V)         |
| 22  | INT    | H/L   | Interrupt Signal              |

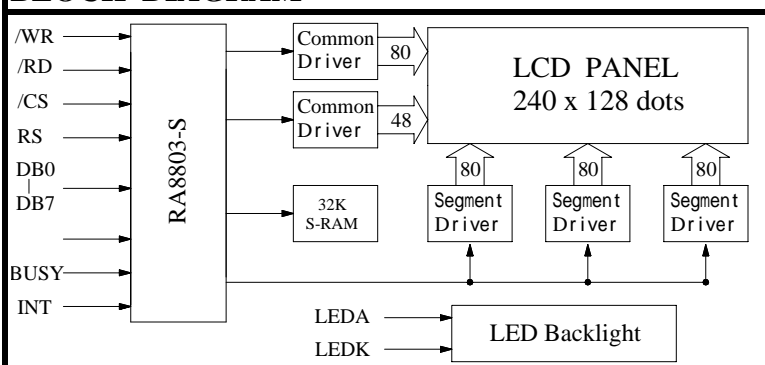
## ABSOLUTE MAXIMUM RATINGS

| Item              | Symbol           | Min  | Type | Max  | Unit |
|-------------------|------------------|------|------|------|------|
| Operating Voltage | VDD              | 4.5  | 5.0  | 5.5  | V    |
| Operating Current | IDD              | 21   | 23.5 | 30   | mA   |
| LED Voltage       | V <sub>LED</sub> | 4.5  | 5.0  | 5.5  | V    |
| LED Current       | I <sub>LED</sub> | 100  | 140  | 210  | mA   |
| Operating Temp.   | Topr             | - 20 | —    | + 70 |      |
| Storage Temp.     | Tsto             | - 30 | —    | + 80 |      |

## ELECTRICAL CHARACTERISTICS

| Item                 | Symbol          | Min    | Type | Max    | Unit |
|----------------------|-----------------|--------|------|--------|------|
| Input Hight Voltage  | V <sub>IH</sub> | 0.8VDD | —    | VDD    | V    |
| Input Low Voltage    | V <sub>IL</sub> | 0      | —    | 0.2VDD | V    |
| Output Hight Voltage | V <sub>OH</sub> | 0.8VDD | —    | VDD    | V    |
| Output Low Voltage   | V <sub>OL</sub> | 0      | —    | 0.2VDD | V    |

## BLOCK DIAGRAM



## POWER SUPPLY

