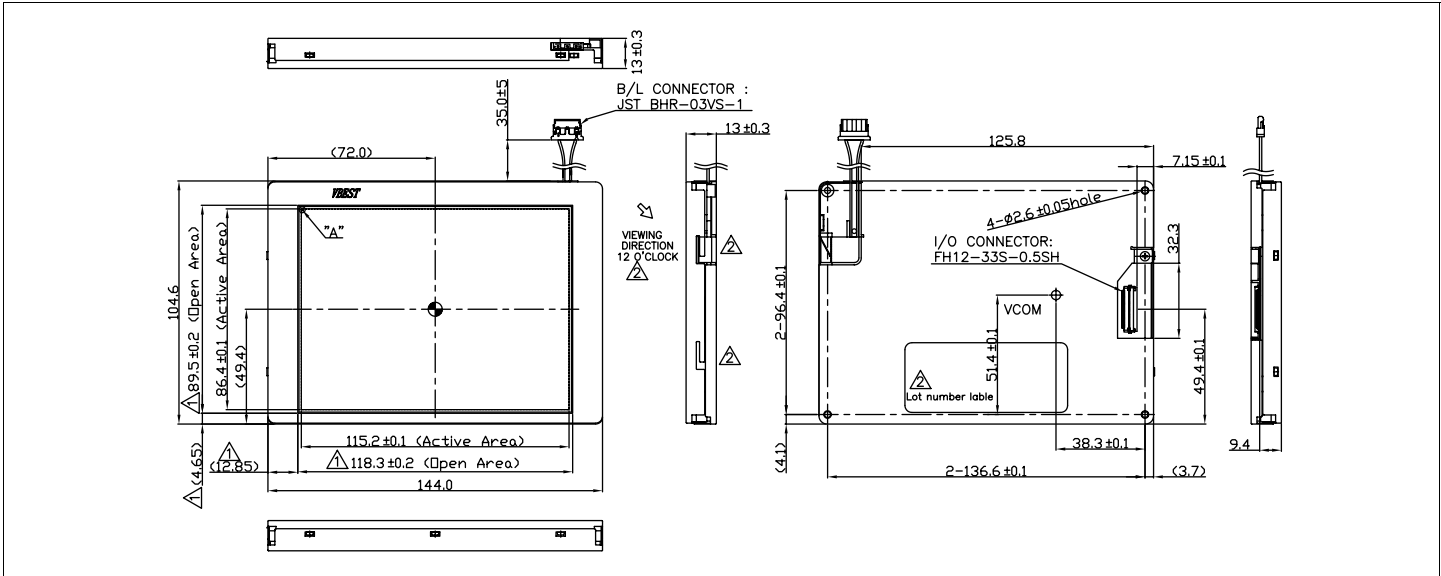


HDA570S-F

Dimensional Drawing

5.7" , QVGA (TFT) Color Graphics , CCFL Backlight



Features  
Viewing Angle(U/D/R/L).....60/60/50/40 degrees  
High Contrast.....350:1  
Fast Response Time (Tr+Tf).....50 msec  
Built-in Controller.....none

Physical Data  
Module Size.....144.0W x104.6H x13.0T mm  
Viewing Area Size.....118.3W x89.5 H mm  
Dot Pitch.....0.12W x 0.36H mm  
Weight.....200g

Electrical Characteristics (VDD=3.3±0.125V 25°C)

| PARAMETER              | SYM               | CONDITION   | MIN                 | TYP | MAX                 | UNIT              |
|------------------------|-------------------|-------------|---------------------|-----|---------------------|-------------------|
| OPERATING VOLTAGE      | V <sub>DD</sub>   | -           | 3.0                 | 3.3 | 3.6                 | V                 |
| OPERATING VOLTAGE CCFL | V <sub>CCFL</sub> | I = 6 mArms | -                   | 555 | -                   | Vrms              |
| INPUT HIGH VOLTAGE     | V <sub>IH</sub>   |             | 0.7*V <sub>DD</sub> | -   | V <sub>DD</sub>     | V                 |
| INPUT LOW VOLTAGE      | V <sub>IL</sub>   |             | 0                   | -   | 0.3*V <sub>DD</sub> | V                 |
| OPERATING CURRENT      | I <sub>DD</sub>   |             | -                   | 100 | -                   | mA                |
| OPERATING CURRENT CCFL | I <sub>CCFL</sub> |             | 3                   | 6   | 6.5                 | Arms              |
| POWER CONSUMPTION      | P <sub>D</sub>    |             | -                   | 4.0 | -                   | W                 |
| BRIGHTNESS             | L                 | Average     | 400                 | 500 | -                   | cd/m <sup>2</sup> |

Pin Connections

| PIN NO. | SYMBOL | FUNCTION |                         |
|---------|--------|----------|-------------------------|
| 1       | GND    | -        | Ground Pin              |
| 2       | CK     | H/L      | Data Sampling Clock     |
| 3       | Hsync  | L        | Horizontal Sync.        |
| 4       | Vsync  | L        | Vertical Sync.          |
| 5       | GND    | -        | Ground Pin              |
| 6       | R0     | H/L      | Red Data Signal (LSB)   |
| 7       | R1     | H/L      | Red Data Signal         |
| 8       | R2     | H/L      | Red Data Signal         |
| 9       | R3     | H/L      | Red Data Signal         |
| 10      | R4     | H/L      | Red Data Signal         |
| 11      | R5     | H/L      | Red Data Signal (MSB)   |
| 12      | GND    | -        | Ground Pin              |
| 13      | G0     | H/L      | Green Data Signal (LSB) |
| 14      | G1     | H/L      | Green Data Signal       |
| 15      | G2     | H/L      | Green Data Signal       |
| 16      | G3     | H/L      | Green Data Signal       |
| 17      | G4     | H/L      | Green Data Signal       |
| 18      | G5     | H/L      | Green Data Signal (MSB) |
| 19      | GND    | -        | Ground Pin              |
| 20      | B0     | H/L      | Blue Data Signal (LSB)  |
| 21      | B1     | H/L      | Blue Data Signal        |
| 22      | B2     | H/L      | Blue Data Signal        |
| 23      | B3     | H/L      | Blue Data Signal        |
| 24      | B4     | H/L      | Blue Data Signal        |
| 25      | B5     | H/L      | Blue Data Signal        |
| 26      | GND    | -        | Ground Pin              |
| 27      | DENAB  | L        | Data Enable Input       |
| 28      | VDD    | -        | 3.3V Power Supply       |
| 29      | VDD    | -        | 3.3V Power Supply       |
| 30      | RL     | H/L      | Horizontal Display Mode |
| 31      | UD     | H/L      | Vertical Display Mode   |
| 32      | NC     | -        | No Connection           |
| 33      | GND    | -        | Ground Pin              |

Absolute Maximum Ratings

| PARAMETER             | SYMBOL                           | MIN  | MAX                   | UNIT |
|-----------------------|----------------------------------|------|-----------------------|------|
| SUPPLY VOLTAGE        | V <sub>DD</sub> /V <sub>DD</sub> | -0.3 | 4.3                   | V    |
| INPUT VOLTAGE         | V <sub>IN</sub>                  | -0.3 | V <sub>DD</sub> + 0.3 | V    |
| OPERATING TEMPERATURE | T <sub>OP</sub>                  | -20  | +70                   | °C   |
| STORAGE TEMPERATURE   | T <sub>STG</sub>                 | -30  | +80                   | °C   |

Power Supply

