



RVT101HVLNWN00

## IPS LVDS 10.1" LCD TFT DATASHEET

Rev.1.2

2021-07-28

| ITEM                           | CONTENTS                            | UNIT              |
|--------------------------------|-------------------------------------|-------------------|
| LCD Type                       | TFT/Transmissive/Normally Black/IPS | /                 |
| Size                           | 10.1                                | Inch              |
| Viewing Direction              | Free                                | /                 |
| Outside Dimensions (W x H x D) | 229.46 x 149.10 x 7.50              | mm                |
| Active Area (W x H)            | 216.96 x 135.60                     | mm                |
| Pixel Pitch (W x H)            | 0.1695 x 0.1695                     | mm                |
| Resolution                     | 1280 x 800 (RGB)                    | /                 |
| Brightness                     | 1000                                | cd/m <sup>2</sup> |
| Color Depth                    | 16.7 M                              | /                 |
| Pixel Arrangement              | RGB Vertical Stripe                 | /                 |
| LCD Driver                     | EK79202B                            | /                 |
| Interface                      | LVDS                                | /                 |
| With/Without Touch             | Without Touch Panel                 | /                 |
| Weight                         | 260                                 | g                 |

**Note 1:** RoHS3 compliant

**Note 2:** LCM weight tolerance:  $\pm 5\%$ .



## 1. REVISION RECORD

| REV NO.           | REV DATE       | CONTENTS  | REMARKS           |                |    |    |    |    |                 |          |   |   |     |    |                   |                |   |     |     |    |                 |          |   |    |     |    |  |
|-------------------|----------------|---|-------------------|----------------|----|----|----|----|-----------------|----------|---|---|-----|----|-------------------|----------------|---|-----|-----|----|-----------------|----------|---|----|-----|----|--|
| 1.0               | 2020-10-22     | Initial Release   |                   |                |    |    |    |    |                 |          |   |   |     |    |                   |                |   |     |     |    |                 |          |   |    |     |    |  |
| 1.1               | 2021-05-26     | Modify Electrical Specification and power on/off sequence<br>Updating new template  |                   |                |    |    |    |    |                 |          |   |   |     |    |                   |                |   |     |     |    |                 |          |   |    |     |    |  |
| 1.2               | 2021-07-28     | Correcting the Operating/standby current<br>From:<br><table border="1" data-bbox="678 555 1236 593"> <tr> <td>Operating Current</td> <td><math>I_{VDD=3.3V}</math></td> <td>-</td> <td>15</td> <td>20</td> <td>mA</td> </tr> <tr> <td>Standby Current</td> <td><math>I_{ST}</math></td> <td>-</td> <td>-</td> <td>250</td> <td>uA</td> </tr> </table><br>To:<br><table border="1" data-bbox="678 631 1252 672"> <tr> <td>Operating Current</td> <td><math>I_{VDD=3.3V}</math></td> <td>-</td> <td>280</td> <td>420</td> <td>mA</td> </tr> <tr> <td>Standby Current</td> <td><math>I_{ST}</math></td> <td>-</td> <td>15</td> <td>2.0</td> <td>mA</td> </tr> </table> | Operating Current | $I_{VDD=3.3V}$ | -  | 15 | 20 | mA | Standby Current | $I_{ST}$ | - | - | 250 | uA | Operating Current | $I_{VDD=3.3V}$ | - | 280 | 420 | mA | Standby Current | $I_{ST}$ | - | 15 | 2.0 | mA |  |
| Operating Current | $I_{VDD=3.3V}$ | -   | 15                | 20             | mA |    |    |    |                 |          |   |   |     |    |                   |                |   |     |     |    |                 |          |   |    |     |    |  |
| Standby Current   | $I_{ST}$       | -   | -                 | 250            | uA |    |    |    |                 |          |   |   |     |    |                   |                |   |     |     |    |                 |          |   |    |     |    |  |
| Operating Current | $I_{VDD=3.3V}$ | -   | 280               | 420            | mA |    |    |    |                 |          |   |   |     |    |                   |                |   |     |     |    |                 |          |   |    |     |    |  |
| Standby Current   | $I_{ST}$       | -   | 15                | 2.0            | mA |    |    |    |                 |          |   |   |     |    |                   |                |   |     |     |    |                 |          |   |    |     |    |  |



## 2. CONTENTS

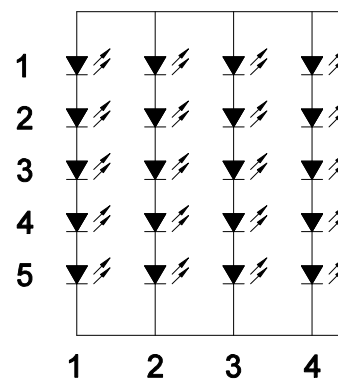
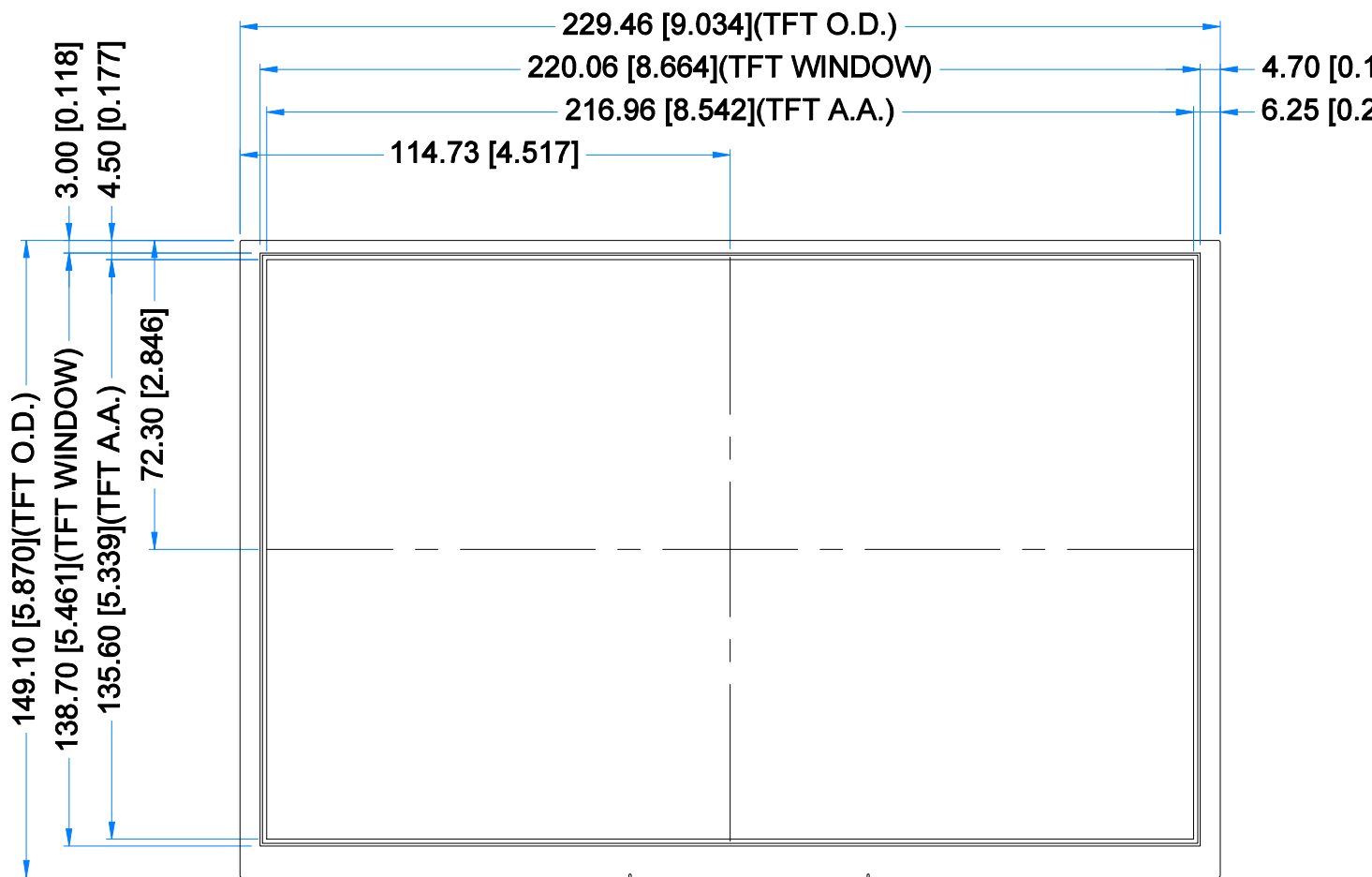
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### 3. MODULE CLASSIFICATION INFORMATION

| RV | T  | 101 | H  | V  | L  | N  | W  | N  | 00  |
|----|----|-----|----|----|----|----|----|----|-----|
| 1. | 2. | 3.  | 4. | 5. | 6. | 7. | 8. | 9. | 10. |

| NO. | PARAMETER        | SYMBOL                           |
|-----|------------------|----------------------------------|
| 1.  | BRAND            | RV – Riverdi                     |
| 2.  | PRODUCT TYPE     | T – TFT Standard                 |
| 3.  | DISPLAY SIZE     | 101 – 10.1"                      |
| 4.  | MODEL SERIAL NO. | H – High Brightness, IPS         |
| 5.  | RESOLUTION       | V – 1280 x 800 px                |
| 6.  | INTERFACE        | L – TFT LCD, LVDS                |
| 7.  | FRAME            | N – Without Mounting Metal Frame |
| 8.  | BACKLIGHT TYPE   | W – LED White                    |
| 9.  | TOUCH PANEL      | N – Without Touch Panel          |
| 10. | VERSION          | 00 – (00-99)                     |



LED

**TFT NOTES:**

1. LCD TYPE: TRANSMISSIVE, NORMALLY BLACK, IPS
2. RESOLUTION: 1280x800
3. VIEWING ANGLE: FREE
4. DRIVING VOLTAGE: 3.3V
5. SURFACE LUMINANCE: 1000cd/m<sup>2</sup>
6. BACKLIGHT: 45 LEDs, V<sub>F</sub>=16.0V(TYP.), I<sub>F</sub>=360mA
7. ZERO BAD PIXEL

**GENERAL NOTES:**

1. OPERATING TEMPERATURE: -20°C ~ 70°C
2. STORAGE TEMPERATURE: -30°C ~ 80°C
3. WITHOUT INDIVIDUAL TOLERANCE:  
±0.3mm[0.012inch]
4. RoHS COMPLIANT



### 5. ABSOLUTE MAXIMUM RATINGS

| PARAMETER                 | SYMBOL          | MIN  | MAX | UNIT |
|---------------------------|-----------------|------|-----|------|
| Supply Voltage for Module | VDD             | -0.3 | 3.9 | V    |
| Operating Temperature     | T <sub>OP</sub> | -20  | 70  | °C   |
| Storage Temperature       | T <sub>ST</sub> | -30  | 80  | °C   |

**Note 1.** The absolute maximum rating values must not be exceeded at any times. The module MUST NOT be used when any of the absolute maximum ratings is exceeded.

The characteristics of the module may not be recovered, or in an extreme case, the module may be permanently destroyed.

### 6. ELECTRICAL CHARACTERISTICS

| PARAMETER         | SYMBOL                | MIN | TYP | MAX | UNIT |
|-------------------|-----------------------|-----|-----|-----|------|
| Supply Voltage    | V <sub>DD</sub>       | 2.6 | 3.3 | 3.6 | V    |
| Operating Current | I <sub>VDD=3.3V</sub> | -   | 280 | 420 | mA   |
| Standby Current   | I <sub>ST</sub>       | -   | 1.5 | 2.0 | mA   |

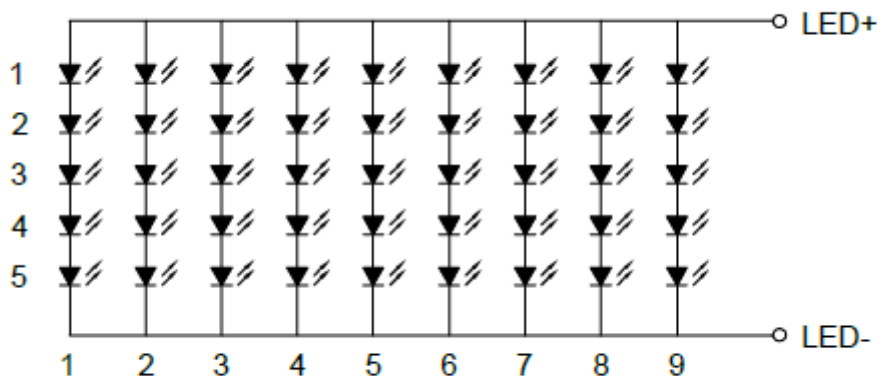
### 7. BACKLIGHT ELECTRICAL CHARACTERISTICS

| PARAMETER                   | SYMBOL          | MIN  | TYP    | MAX  | UNIT  | NOTE   |
|-----------------------------|-----------------|------|--------|------|-------|--------|
| Backlight Driving Voltage   | V <sub>F</sub>  | 15.0 | 16.0   | 17.0 | V     |        |
| Backlight Driving Current   | I <sub>F</sub>  | 315  | 360    | 405  | mA    |        |
| Backlight Power Consumption | W <sub>BL</sub> | -    | 5760   | -    | mW    |        |
| LED Lifetime                | -               | -    | 50,000 | -    | hours | Note 1 |

**Note 1.** Each LED: I<sub>F</sub> =40 mA, V<sub>F</sub>=3.2 ±0.2V.

**Note 2.** Optical performance should be evaluated at T<sub>a</sub>=25 °C only.

**Note 3.** Operating life means the period in which the LED brightness goes down to 50% of the initial brightness. Typical operating lifetime is the estimated parameter.



LED Diagram Circuit



## 8. ELECTRO-OPTICAL CHARACTERISTICS

| ITEM                       | SYMBOL            | CONDITION                                      | MIN  | TYP  | MAX  | UNIT              | RMK    | NOTE |
|----------------------------|-------------------|--|------|------|------|-------------------|--------|------|
| Response Time              | Tr+Tf             | $\theta=0^\circ$<br>$\phi=0^\circ$<br>Ta=25 °C | -    | 25   | 35   | ms                | FIG 1. | 4    |
| Contrast Ratio             | Cr                |  | 800  | 1000 | -    | ---               | FIG 2. | 1    |
| Luminance Uniformity       | $\delta$<br>WHITE |  | -    | 75   | -    | %                 | FIG 2. | 3    |
| Surface Luminance          | Lv                |  | -    | 1000 | -    | cd/m <sup>2</sup> | FIG 2. | 2    |
| Viewing Angle Range        | $\theta$          | $\phi = 90^\circ$                              | 75   | 85   | -    | deg               | FIG 3. | 6    |
|                            |                   | $\phi = 270^\circ$                             | 75   | 85   | -    | deg               | FIG 3. |      |
|                            |                   | $\phi = 0^\circ$                               | 75   | 85   | -    | deg               | FIG 3. |      |
|                            |                   | $\phi = 180^\circ$                             | 75   | 85   | -    | deg               | FIG 3. |      |
| CIE (x, y)<br>Chromaticity | Rx                | $\theta=0^\circ$<br>$\phi=0^\circ$<br>Ta=25 °C | 0.22 | 0.26 | 0.30 | -                 | FIG 2. | 5    |
|                            | Ry                |  | 0.20 | 0.24 | 0.28 | -                 |        |      |
|                            | Gx                |  | 0.34 | 0.38 | 0.42 | -                 |        |      |
|                            | Gy                |  | 0.50 | 0.54 | 0.58 | -                 |        |      |
|                            | Bx                |  | 0.10 | 0.14 | 0.18 | -                 |        |      |
|                            | By                |  | 0.09 | 0.13 | 0.17 | -                 |        |      |
|                            | Wx                |  | 0.28 | 0.32 | 0.36 | -                 |        |      |
|                            | Wy                |  | 0.29 | 0.33 | 0.37 | -                 |        |      |

**Note 1.** Contrast Ratio (CR) is defined mathematically as below, for more information see Figure 2.

$$\text{Contrast Ratio} = \frac{\text{Average Surface Luminance with all white pixels (P1, P2, P3, P4, P5)}}{\text{Average Surface Luminance with all black pixels (P1, P2, P3, P4, P5)}}$$

**Note 2.** Surface luminance is the LCD surface from the surface with all pixels displaying white. For more information see Figure 2.

$$L_v = \text{Average Surface Luminance with all white pixels (P1, P2, P3, P4, P5)}$$

**Note 3.** The uniformity in surface luminance  $\delta$  WHITE is determined by measuring luminance at each test position 1 through 5, and then dividing the minimum luminance of 5 points luminance by maximum luminance of 5 points luminance. For more information see Figure 2.

$$\delta \text{ WHITE} = \frac{\text{Minimum Surface Luminance with all white pixels (P1, P2, P3, P4, P5)}}{\text{Maximum Surface Luminance with all white pixels (P1, P2, P3, P4, P5)}}$$

**Note 4.** Response time is the time required for the display to transition from white to black (Rise Time, Tr) and from black to white (Decay Time, Tf). For additional information see Figure 1. The test equipment is Autronic-Melchers's ConoScope series.

**Note 5.** CIE (x, y) chromaticity, the x, y value is determined by measuring luminance at each test position 1 through 5, and then calculating the average value.

**Note 6.** Viewing angle is the angle at which the contrast ratio is greater than 2. For TFT module the contrast ratio is greater than 10. The angles are determined for the horizontal or x axis and the vertical or y axis with respect to the z axis which is normal to LCD surface. For more information see Figure 3.

**Note 7.** For viewing angle and response time testing, the testing data is based on Autronic-Melchers's ConoScope series. Instruments for Contrast Ratio, Surface Luminance, Luminance Uniformity, CIE the test data is based on TOPCON's BM-5 photo detector.

Figure 1. The definition of response time

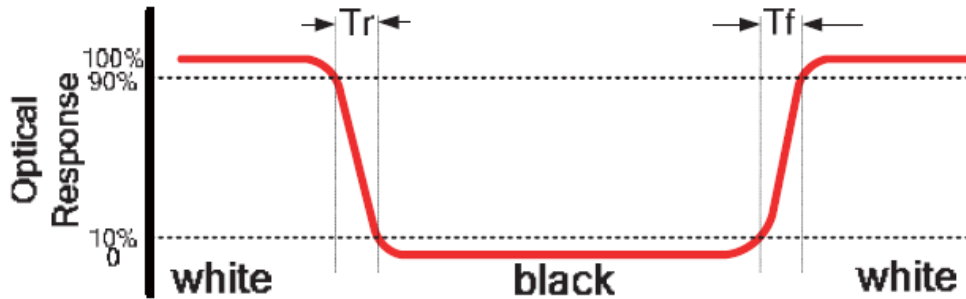
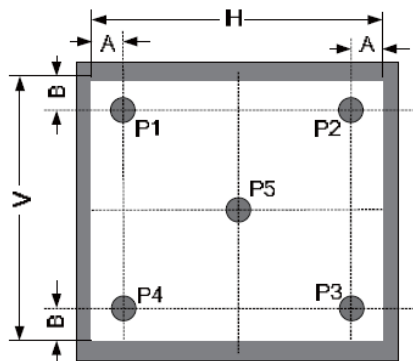


Figure 2. Measuring method for Contrast ratio, surface luminance, Luminance uniformity, CIE (x, y) chromaticity



A: 5mm

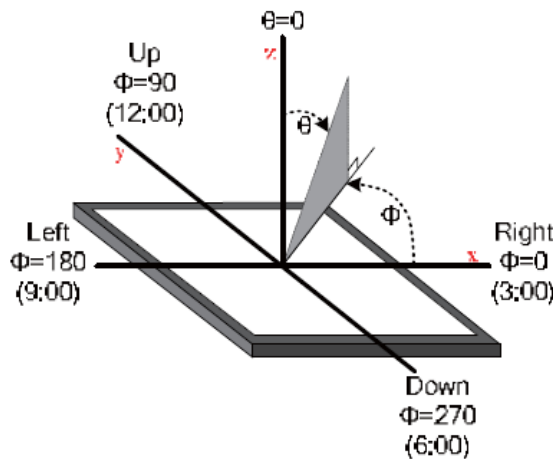
B: 5mm

H, V: Active Area

Light spot size  $\varnothing=5\text{mm}$ , 500mm distance from the LCD surface to detector lens.

Measurement instrument is TOPCON'S luminance meter BM-5

Figure 3. The definition of viewing angle







## 9. INTERFACES DESCRIPTION

### 9.1 TFT assignment

| PIN NO. | SYMBOL          | I/O | DESCRIPTION                   |
|---------|-----------------|-----|-------------------------------|
| 1       | NC              | -   | No Connection                 |
| 2       | V <sub>DD</sub> | P   | Power Supply, 3.3V            |
| 3       | V <sub>DD</sub> | P   | Power Supply, 3.3V            |
| 4       | NC              | -   | No Connection                 |
| 5       | NC              | -   | No Connection                 |
| 6       | NC              | -   | No Connection                 |
| 7       | GND             | P   | Ground                        |
| 8       | Rxin0-          | I   | -LVDS Differential Data Input |
| 9       | Rxin0+          | I   | +LVDS Differential Data Input |
| 10      | GND             | P   | Ground                        |
| 11      | Rxin1-          | I   | -LVDS Differential Data Input |
| 12      | Rxin1+          | I   | +LVDS Differential Data Input |
| 13      | GND             | P   | Ground                        |
| 14      | Rxin2-          | I   | -LVDS Differential Data Input |
| 15      | Rxin2+          | I   | +LVDS Differential Data Input |
| 16      | GND             | P   | Ground                        |
| 17      | RxCLK-          | I   | -LVDS Differential Data Input |
| 18      | RxCLK+          | I   | +LVDS Differential Data Input |
| 19      | GND             | P   | Ground                        |
| 20      | Rxin3-          | I   | -LVDS Differential Data Input |
| 21      | Rxin3+          | I   | +LVDS Differential Data Input |
| 22      | GND             | P   | Ground                        |
| 23      | NC              | -   | No Connection                 |
| 24      | NC              | -   | No Connection                 |
| 25      | GND             | P   | Ground                        |
| 26      | NC              | -   | No Connection                 |
| 27      | NC              | -   | No Connection                 |
| 28      | NC              | -   | No Connection                 |
| 29      | NC              | -   | No Connection                 |
| 30      | GND             | P   | Ground                        |
| 31      | LED-            | P   | LED Cathode                   |
| 32      | LED-            | P   | LED Cathode                   |
| 33      | NC              | -   | No Connection                 |
| 34      | NC              | -   | No Connection                 |
| 35      | NC              | -   | No Connection                 |
| 36      | NC              | -   | No Connection                 |
| 37      | NC              | -   | No Connection                 |
| 38      | NC              | -   | No Connection                 |
| 39      | LED+            | P   | LED Anode                     |
| 40      | LED+            | P   | LED Anode                     |

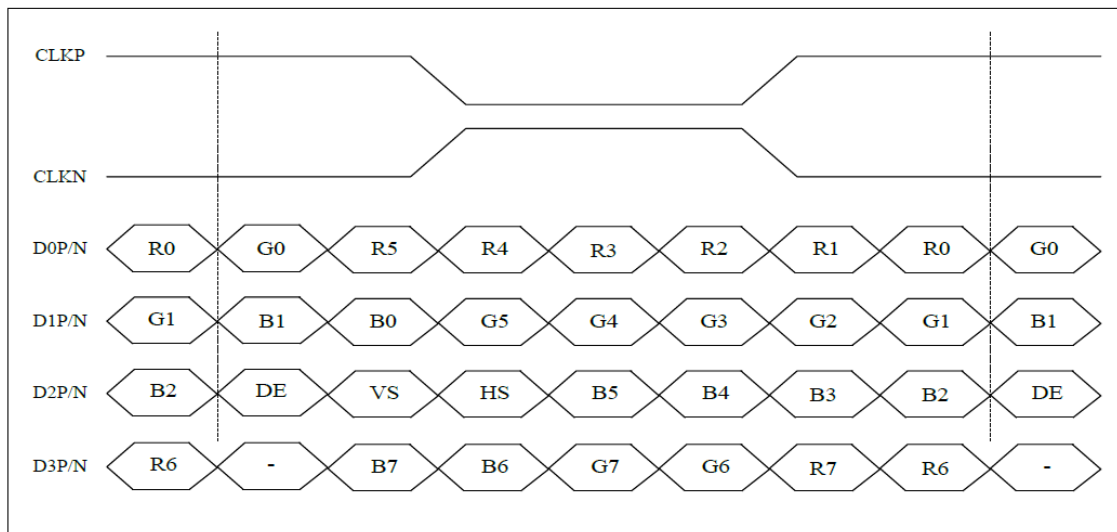
**Note 1.** I: input, P:Power



## 10. TIMING CHARACTERISTICS

### 10.1 LVDS interface characteristic

VESA Format: 8-bit LVDS input, (LVBIT=H, LVFMT=H)



**Note 1: Control signals** DE VS HS: Active Low

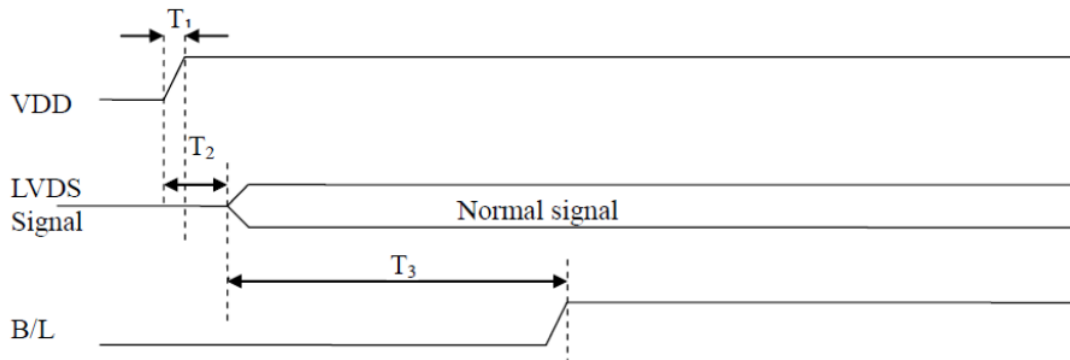
### 10.2 Timing table

| PARAMETER                           | SYMBOL    | MIN  | TYP  | MAX  | UNIT  |
|-------------------------------------|-----------|------|------|------|-------|
| Clock Frequency (Rate=60Hz (LVDS))  | FDCLK     | 66.3 | 72.4 | 78.9 | MHz   |
| HSYNC Period Time                   | $T_H$     | 1380 | 1440 | 1500 | DCLK  |
| Horizontal Display area             | $T_{HD}$  | 1280 |      |      | DCLK  |
| Hsync pulse Width                   | $T_{HPW}$ | 1    | -    | 40   | $T_c$ |
| Hsync Back Porch (With pulse width) | $T_{HBP}$ | 88   | 88   | 88   | DCLK  |
| Hsync Front Porch                   | $T_{HFP}$ | 12   | 72   | 132  | DCLK  |
| VSYNC Period Time                   | $T_V$     | 824  | 838  | 872  | H     |
| Vertical Display area               | $T_{VD}$  | 800  |      |      |       |
| Vsync pulse Width                   | $T_{VW}$  | 1    | -    | 20   |       |
| Vsync Back Porch (With pulse width) | $T_{VBP}$ | 23   | 23   | 23   |       |
| Vsync Front Porch                   | $T_{VFP}$ | 1    | 15   | 49   |       |



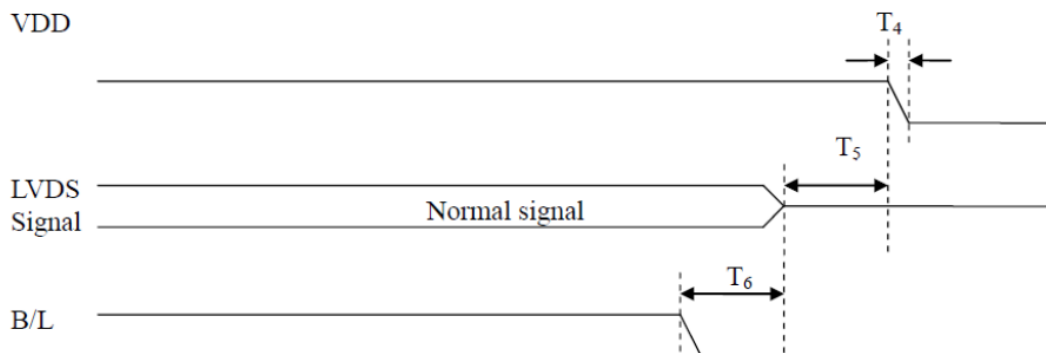
### 10.3 Power ON/OFF sequence

#### 10.3.1 Power on sequence



| PARAMETER | VALUE |      |      | UNIT |
|-----------|-------|------|------|------|
|           | MIN.  | TYP. | MAX. |      |
| T1        | 0.5   | 2    | 10   | ms   |
| T2        | 0     | 5    | 50   |      |
| T3        | 130   | 136  | 210  |      |

#### 10.3.2 Power off sequence



| PARAMETER | VALUE |      |      | UNIT |
|-----------|-------|------|------|------|
|           | MIN.  | TYP. | MAX. |      |
| T4        | 0.5   | 2    | 10   | ms   |
| T5        | 0     | 7    | 50   |      |
| T6        | 0     | 2    | 100  |      |

## 11. INSPECTION

Standard acceptance/rejection criteria for TFT module

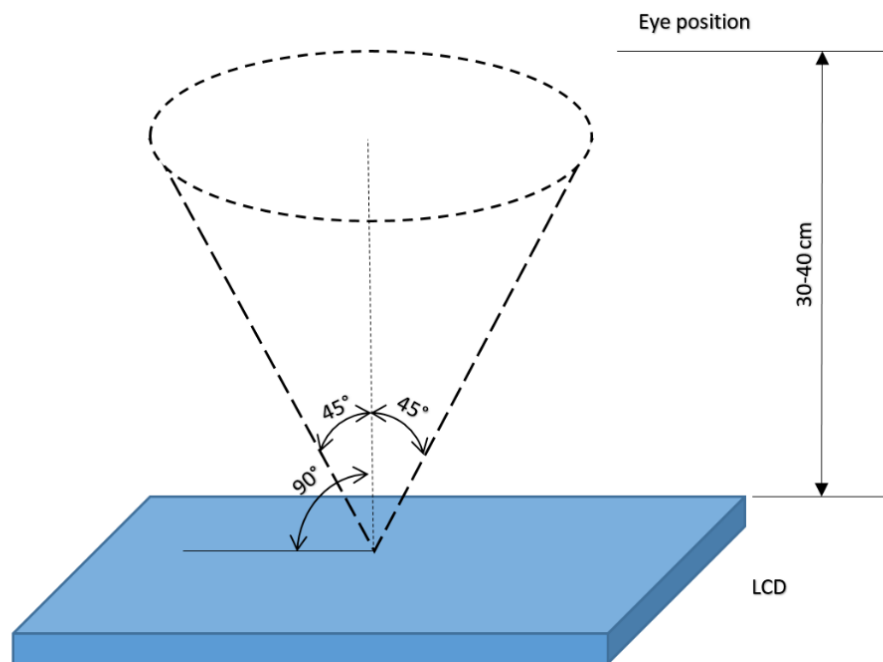
### 11.1 Inspection condition

Ambient conditions:

- Temperature:  $25 \pm 2^\circ\text{C}$
- Humidity:  $(60 \pm 10) \%RH$
- Illumination: Single fluorescent lamp non-directive (300 to 700 lux)

Viewing distance:  $35 \pm 5\text{cm}$  between inspector bare eye and LCD.

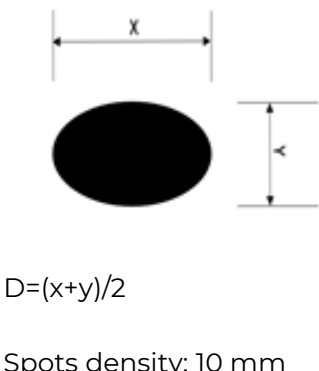
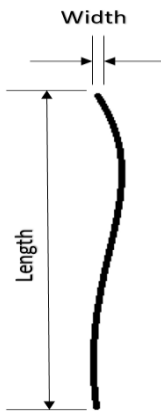
Viewing Angle: U/D:  $45^\circ/45^\circ$ , L/R:  $45^\circ/45^\circ$





### 11.2 Inspection standard

The LCD TFT has zero bad pixels. Please refer the item “Bright/Dark dots”.

| ITEM   |   | CRITERION                                |                         |               |
|--|---|--|-------------------------|---------------|
| Black spots,<br>white spots,<br>light leakage,<br>Foreign Particle<br>(round Type) |  <p><math>D=(x+y)/2</math></p> <p>Spots density: 10 mm</p> | Size = 10.1"                             |                         |               |
|  |   | Average Diameter                         | Qualified Qty           |               |
|  |   | $D \leq 0.2 \text{ mm}$                  | Ignored                 |               |
|  |   | $0.2 \text{ mm} < D \leq 0.3 \text{ mm}$ | $N \leq 4$              |               |
|  |   | $0.5 \text{ mm} < D$                     | Not allowed             |               |
| LCD black spots,<br>white spots,<br>light leakage<br>(line Type)                   |  <p>Spots density: 10 mm</p>                              | Size = 10.1"                             |                         |               |
|  |   | Length                                   | Width                   | Qualified Qty |
|  |   | -  | $W \leq 0.05$           | Ignored       |
|  |   | $L \leq 5.0$                             | $0.05 < W \leq 0.1$     | $N \leq 3$    |
|  |   | $5.0 < L$                                | $0.10 < W$<br>$5.0 < L$ | Not allowed   |
| Bright/Dark<br>Dots  | Size = 10.1   |  |                         |               |
|  | Item  | Qualified Qty                            |                         |               |
|  | Bright dots   | 0  |                         |               |
|  | Dark dots   | 0  |                         |               |
|  | Cluster Bright Dots or Dark Dots  | 0  |                         |               |
| Total Bright and Dark Dots   |   | 0  |                         |               |
| Clear spots  | Size $\geq 5.0$ "   |  |                         |               |
|  | Average Diameter  | Qualified Qty                            |                         |               |
|  | $D < 0.2 \text{ mm}$  | Ignored                                  |                         |               |
|  | $0.2 \text{ mm} < D < 0.3 \text{ mm}$   | 4  |                         |               |
|  | $0.3 \text{ mm} < D < 0.5 \text{ mm}$   | 2  |                         |               |
|  | $0.5 \text{ mm} < D$  | 0  |                         |               |
| Spots density: 10 mm   |   |  |                         |               |



## 12. RELIABILITY TEST

| NO. | TEST ITEM                           | TEST CONDITION   | NOTE   |
|-----|-------------------------------------|--|--------|
| 1   | High Temperature Storage            | 80°C/120 hours   | Note 1 |
| 2   | Low Temperature Storage             | -30°C/120 hours  |        |
| 3   | High Temperature Operating          | 70 °C /120 hours   |        |
| 4   | Low Temperature Operating           | -20°C/120 hours  |        |
| 5   | High Temperature and High Humidity  | Humidity 40°C, 90%RH, 120Hrs   |        |
| 6   | Thermal Cycling Test (No operation) | -20°C for 30min, 70°C for 30 min.<br>100 cycles. Then test at room temperature after 1 hour  | Note 2 |
| 7   | Vibration Test                      | Frequency: 10 ÷ 55 Hz.<br>Stroke: 1.5 mm.<br>Sweep: 10Hz ÷ 55Hz ÷ 10 Hz.<br>2 hours for each direction of X, Y, Z<br>(Total 6 hours) |        |
| 8   | Package Drop Test                   | Height: 60 cm<br>1 corner, 3 edges, 6 surfaces   |        |

**Note 1.** Sample quantity for each test item is 5 ÷ 10 pcs.

**Note 2.** Before cosmetic and function test, the product must have enough recovery time, at least 2 hours at room temperature.



### 13. LEGAL INFORMATION

Riverdi grants the guarantee for the proper operation of the goods for a period of 12 months from the date of possession of the goods. If in a consequence of this guaranteed execution the customer has received the defects-free item as replacement for the defective item, the effectiveness period of this guarantee shall start anew from the moment the customer receives the defects-free item.

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