E Ink Holdings Inc. **ED060SCE**

**Version: 1.0**

# TECHNICAL SPECIFICATION

# MODEL NO: ED060SCE

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Please contact EIH or its agent for further information.

☐Customer's Confirmation

Customer _____

Date _____

By _____

☐EIH's Confirmation

Confirmed By Frank.Shan

Prepared By 侯采君

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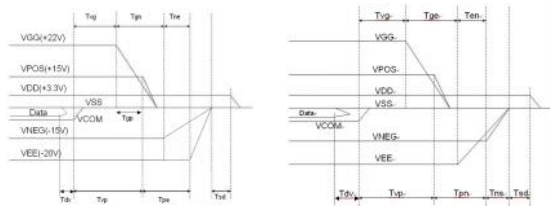
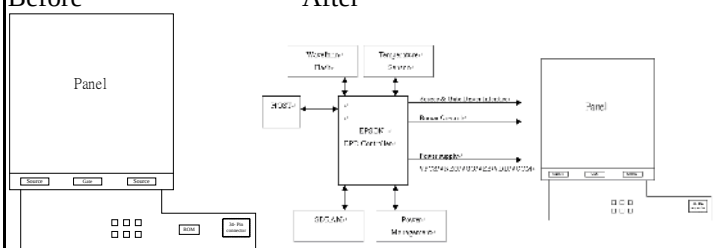
# Revision History

| Rev. | Issued Date | Revised Contents |
|---|---|---|
| 0.1 | October 1, 2010 | Preliminary |
| 0.2 | October 5, 2010 | Add Page 5<br>4.Mechanical Drawing of EPD Module<br>Add Note 3: double side tape size :75×4mm 3M#8018 0.06t<br>Modify Page 12<br>7.Power on Sequence<br>Power On<br>Power Down<br><br>Modify page13<br>Power Down<br>Before After<br>  <br>Modify Page19<br>11. Reliability test<br>Remove “Remark”<br>Add<br>< Criteria ><br>1、Main display module should no defect of function, screen quality and appearance (including : Line,no image)<br><br>Modify Page23<br>14.Block Diagram<br>Before After<br>  |
| 1.0 | October 29, 2010 | Page 4<br>3.Mechanical specification<br>Add module weight<br>Page 20<br>12.Bar code definition<br>Add 1.EPD Model code<br>8.Module Manufacturer code<br>Page 8<br>6-2)Panel DC Characteristics<br>Modify power consumption<br>Page 15<br>9.Optical characteristics<br>Delete Gn Min: DS+(WS-DS)×(n-1)/(m-1) and<br>Max :DS+(WS-DS)×(n+1)/(m-1) |

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# *TECHNICAL SPECIFICATION*

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## 1. Application

The display is a TFT active matrix electrophoretic display, wi th associated interface and control logic, and a reference system design.

The 6” active area contains 600 x 800 pixels, the display is capable to display images at 2 -16 gray levels (1-4 bits) depending on the display controller and the associated waveform file used.

## 2. Features

- High contrast TFT electrophoretic
- 600 x 800 display
- High reflectance
- Ultra wide viewing angle
- Ultra low power consumption
- Pure reflective mode
- Bi-stable
- Commercial temperature range
- Landscape, portrait mode
- Antiglare hard-coated front-surface

## 3. Mechanical Specifications

| Parameter | Specifications | Unit | Remark |
|---|---|---|---|
| Screen Size | 6.0 (3:4 diagonal) | Inch | |
| Display Resolution | 600 (H)×800(V) | Pixel | |
| Active Area | 90.6 (H)×122.4 (V) | mm | |
| Pixel Pitch | 0.151 (H)×0.153 (V) | mm | |
| Pixel Configuration | Rectangle | | |
| Outline Dimension | 101.8(W)×138.4(H)×1.18(D) (panel area height) | mm | |
| Module Weight | 34±4 | g | |
| Number of Gray | 16 Gray Level (monochrome) | | |
| Display operating mode | Reflective mode | | |
| Surface treatment | Anti-glare treatment for protective sheet | | |

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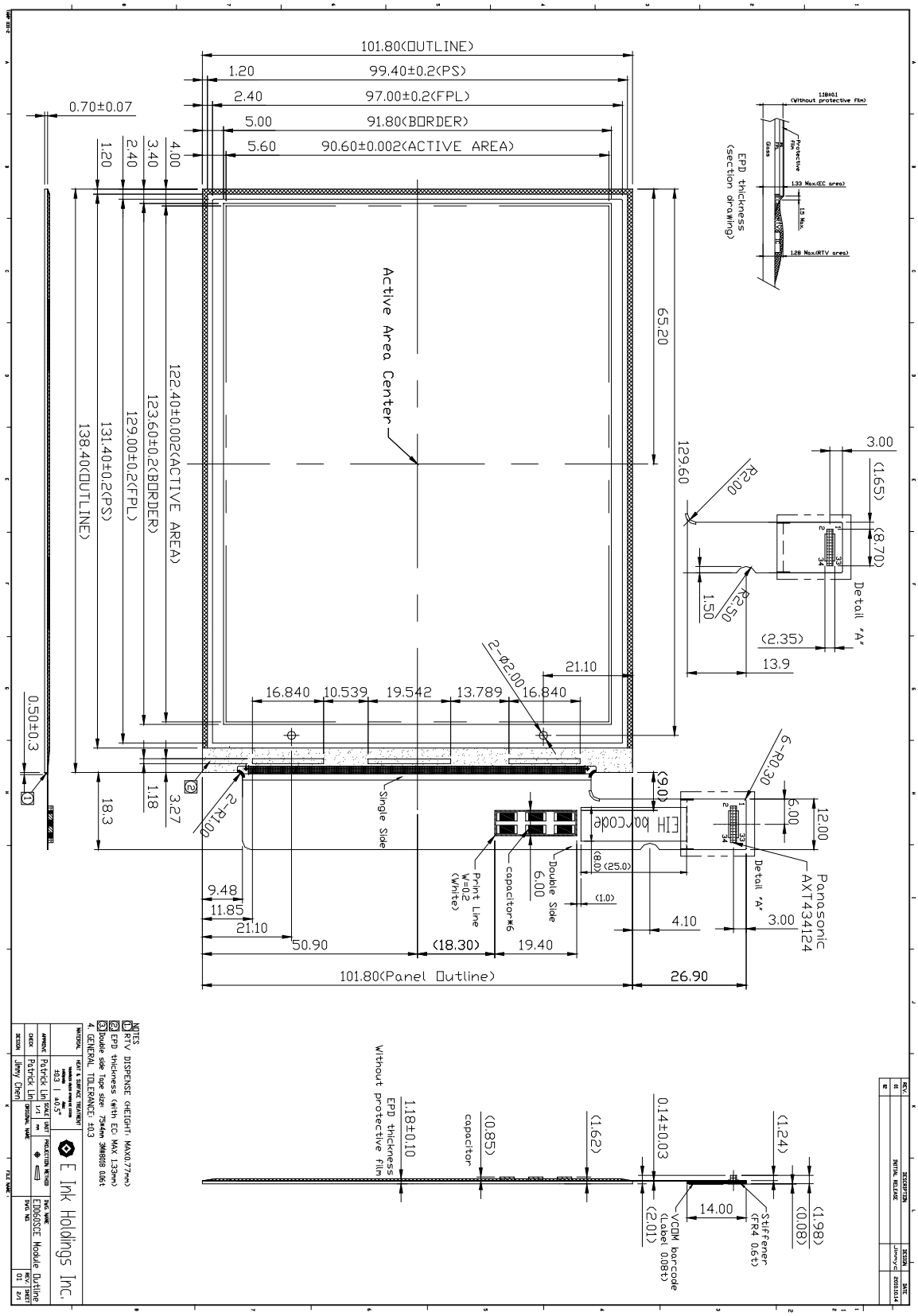
## 4. Mechanical Drawing of EPD Module

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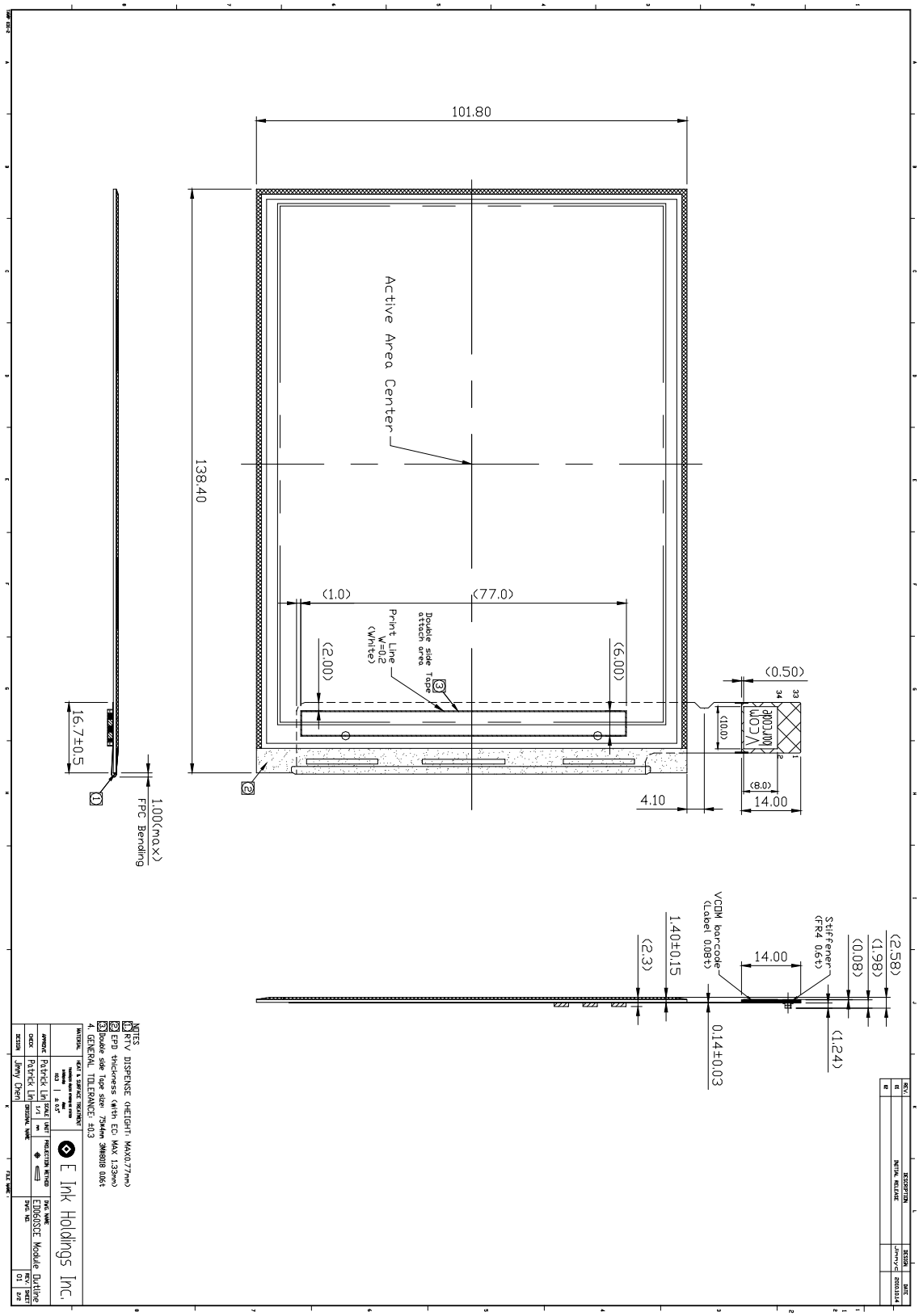
101.80
138.40
Active Area Center
(1.0)
(77.0)
(2.00)
(6.00)
Print Line W=0.2 (White)
Double side attach area Tape
16.7±0.5
1.00(max) FPC Bending
(0.50)
(10.0)
(8.0)
14.00
4.10
VCOM barcode (Label 0.08t)
14.00
Stiffener (FR4 0.6t)
(2.58)
(1.98)
(0.08)
(1.24)
1.40±0.15
(2.3)
0.14±0.03
NOTES
1. RTV DISPENSE (HEIGHT: MAX0.77mm)
2. EPD thickness (with EC: MAX 1.33mm)
3. Double side Tape size: 75x44mm 3M#8018 0.06t
4. GENERAL TOLERANCE: ±0.3
MATERIAL
APPROVE Patrick Lin
CHECK Patrick Lin
DESIGN Jimmy Chen
SCALE 1/1
UNIT mm
PROJECTION METHOD
DRAWING NAME ED060SCE Module Outline
DWG NO.
REV 01
SHEET 2/2
E Ink Holdings Inc.
REV B
DESCRIPTION INITIAL RELEASE
DESIGN Jimmy-C
DATE 2010.10.14

## 5. Input/Output Interface

### 5-1) Connector type: AXT434124

**Pin Assignment**

| Pin # | Signal | Description | Remark |
|---|---|---|---|
| 1 | VNEG | Negative power supply source driver | |
| 2 | VPOS | Positive power supply source driver | |
| 3 | VNEG | Negative power supply source driver | |
| 4 | VPOS | Positive power supply source driver | |
| 5 | VDD | Digital power supply drivers | |
| 6 | VSS | Ground | |
| 7 | VDD | Digital power supply drivers | |
| 8 | VSS | Ground | |
| 9 | XCL | Clock source driver | |
| 10 | XLE | Latch enable source driver | |
| 11 | XOE | Output enable source driver | |
| 12 | XSTL | Start pulse source driver | |
| 13 | D0 | Data signal source driver | |
| 14 | D1 | Data signal source driver | |
| 15 | D2 | Data signal source driver | |
| 16 | D3 | Data signal source driver | |
| 17 | D4 | Data signal source driver | |
| 18 | D5 | Data signal source driver | |
| 19 | D6 | Data signal source driver | |
| 20 | D7 | Data signal source driver | |
| 21 | VCOM | Common connection | |
| 22 | NC | NC | |
| 23 | VCOM | Common connection | |
| 24 | NC | NC | |
| 25 | VGG | Positive power supply gate driver | |
| 26 | MODE1 | Output mode selection gate driver | |
| 27 | VEE | Negative power supply gate driver | |
| 28 | CKV | Clock gate driver | |
| 29 | VEE | Negative power supply gate driver | |
| 30 | SPV | Start pulse gate driver | |
| 31 | VSS | Ground | |
| 32 | BORDER | Border connection | |
| 33 | NC | NC | |
| 34 | NC | NC | |

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## 6.Electrical Characteristics

### 6-1) Absolute maximum rating

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Logic Supply Voltage | VDD | -0.3 to +7 | V |
| Positive Supply Voltage | $V_{POS}$ | -0.3 to +18 | V |
| Negative Supply Voltage | $V_{NEG}$ | +0.3 to -18 | V |
| Max .Drive Voltage Range | $V_{POS}$ - $V_{NEG}$ | 36 | V |
| Supply Voltage | VGG | -0.3 to +45 | V |
| Supply Voltage | VEE | -25.0 to +0.3 | V |
| Supply Range | VGG-VEE | -0.3 to +45 | V |
| Operating Temp. Range | TOTR | 0 to +50 | ℃ |
| Storage Temperature | TSTG | -25 to +70 | ℃ |

### 6-2) Panel DC characteristics

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Signal ground | $V_{SS}$ | | - | 0 | - | V |
| Logic Voltage supply | $V_{DD}$ | | 3.0 | 3.3 | 3.6 | V |
| | $I_{VDD}$ | $V_{DD}$=3.3V | - | 0.6 | 1.8 | mA |
| Gate Negative supply | $V_{EE}$ | | -21 | -20 | -19 | V |
| | $I_{EE}$ | $V_{EE}$ =-20V | - | 1.3 | 3.9 | mA |
| Gate Positive supply | $V_{GG}$ | | 21 | 22 | 23 | V |
| | $I_{GG}$ | $V_{GG}$ = 22V | - | 0.7 | 2.1 | mA |
| Source Negative supply | $V_{NEG}$ | | -15.4 | -15 | -14.6 | V |
| | $I_{NEG}$ | $V_{NEG}$ = -15V | - | 6.6 | 13.2 | mA |
| Source Positive supply | $V_{POS}$ | | 14.6 | 15 | 15.4 | V |
| | $I_{POS}$ | $V_{POS}$ = 15V | - | 6.5 | 13.0 | mA |
| Border supply | $V_{Border}$ | $V_{POS}$ = 15V | 14.6 | 15 | 15.4 | V |
| | | $V_{NEG}$ = -15V | -15.4 | -15 | -14.6 | V |
| Asymmetry source | $V_{Asym}$ | $V_{POS}$+$V_{NEG}$ | -800 | 0 | 800 | mV |
| Common voltage | $V_{COM}$ | | -2.5 | Adjusted | -0.3 | V |
| | $I_{COM}$ | | - | 0.20 | - | mA |
| Panel Power | P | | - | 240 | 530 | mW |
| Standby power panel | $P_{STBY}$ | | - | - | 0.4 | mW |
| Operating temperature | | | 0 | - | 50 | ℃ |
| Storage temperature | | | -25 | - | 70 | ℃ |

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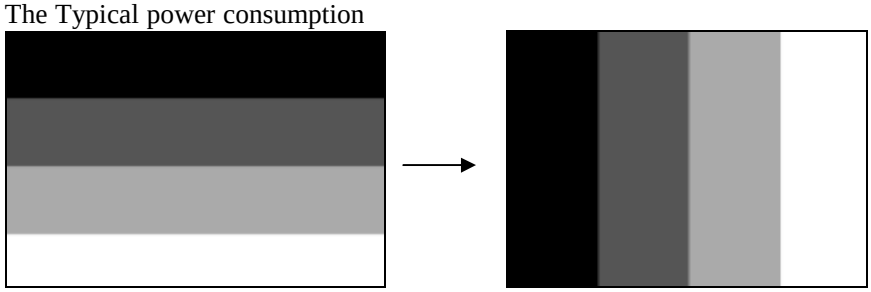
- The Typical power consumption is measured using 85Hz waveform with following pattern transition: from horizontal 4 gray scale pattern to vertical 4 gray scale pattern. (Note 6-1)
- The standby power is the consumed power when the panel controller is in standby mode.
- The listed electrical/optical characteristics are only guaranteed under the controller & waveform provided by EIH.
- Vcom is recommended to be set in the range of assigned value ± 0.1V
- The maximum $I_{COM}$ inrush current is about 800 mA

Note 6-1

The Typical power consumption



**6-3 ) Panel AC characteristics**

VDD=3.0V to 3.6V, unless otherwise specified.

| Parameter | Symbol | Min. | Typ. | Max. | Unit | App Pin |
|---|---|---|---|---|---|---|
| Clock frequency | fckv | - | - | 200 | kHz | CKV |
| Minimum “L” clock pulse width | twL | 0.5 | - | - | us | |
| Clock rise time | trckv | - | - | 100 | ns | |
| Clock fall time | tfckv | - | - | 100 | ns | |
| Data setup time | tSU | 100 | - | - | ns | CKV, SPV |
| Data hold time | tH | 100 | - | - | ns | |
| Pulse rise time | trspv | - | - | 100 | ns | SPV |
| Pulse fall time | tfspv | - | - | 100 | ns | |
| Clock XCL cycle time | tcy | 50 | - | DC | ns | Below table |
| D0 ..D7 setup time | tsu | 8 | - | - | ns | |
| D0 .. D7 hold time | th | 1 | - | - | ns | |
| XLE on delay time | tLEdly | 40 | - | - | ns | |
| XLE high-level pulse width | tLEw | 40 | - | - | ns | |
| XLE off delay time | tLEoff | 200 | - | - | ns | |
| Output setting time to +/- 30mV($C_{load}$=200pF) | tout | - | - | 12 | us | |

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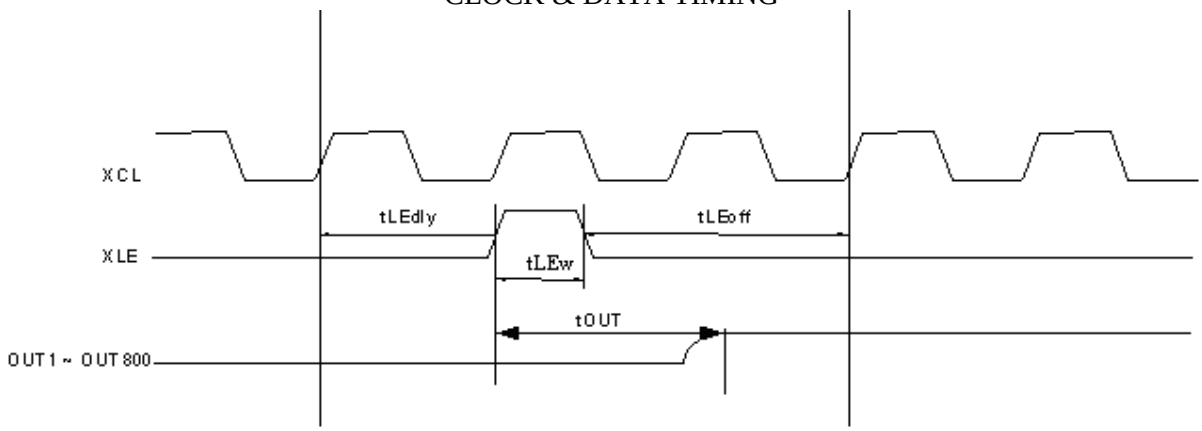
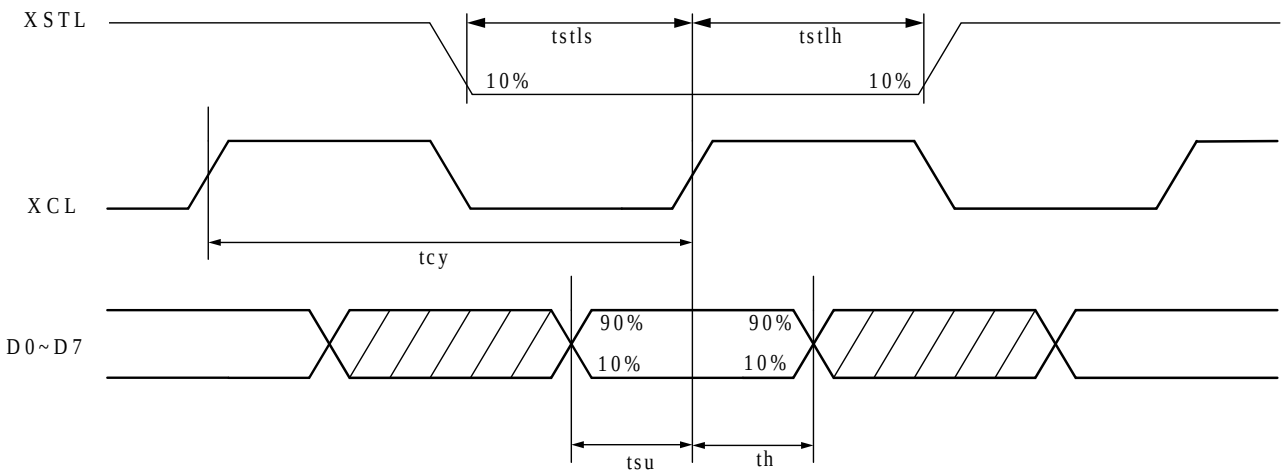
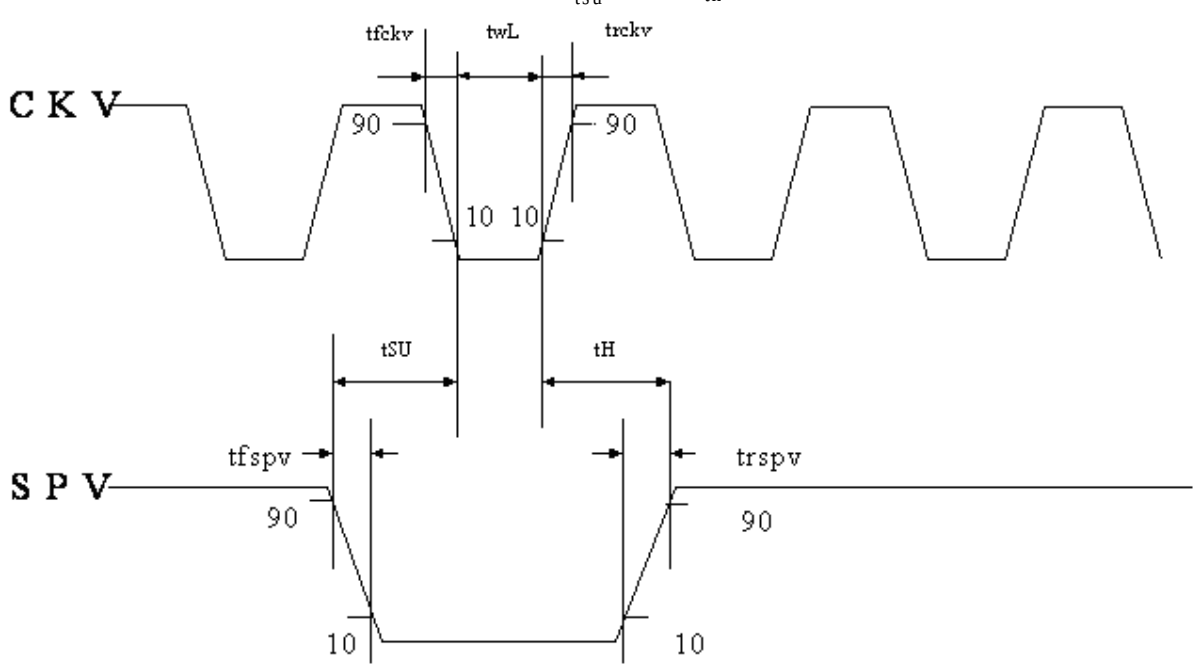
CLOCK & DATA TIMING




OUTPUT LATCH CONTROL SIGNALS

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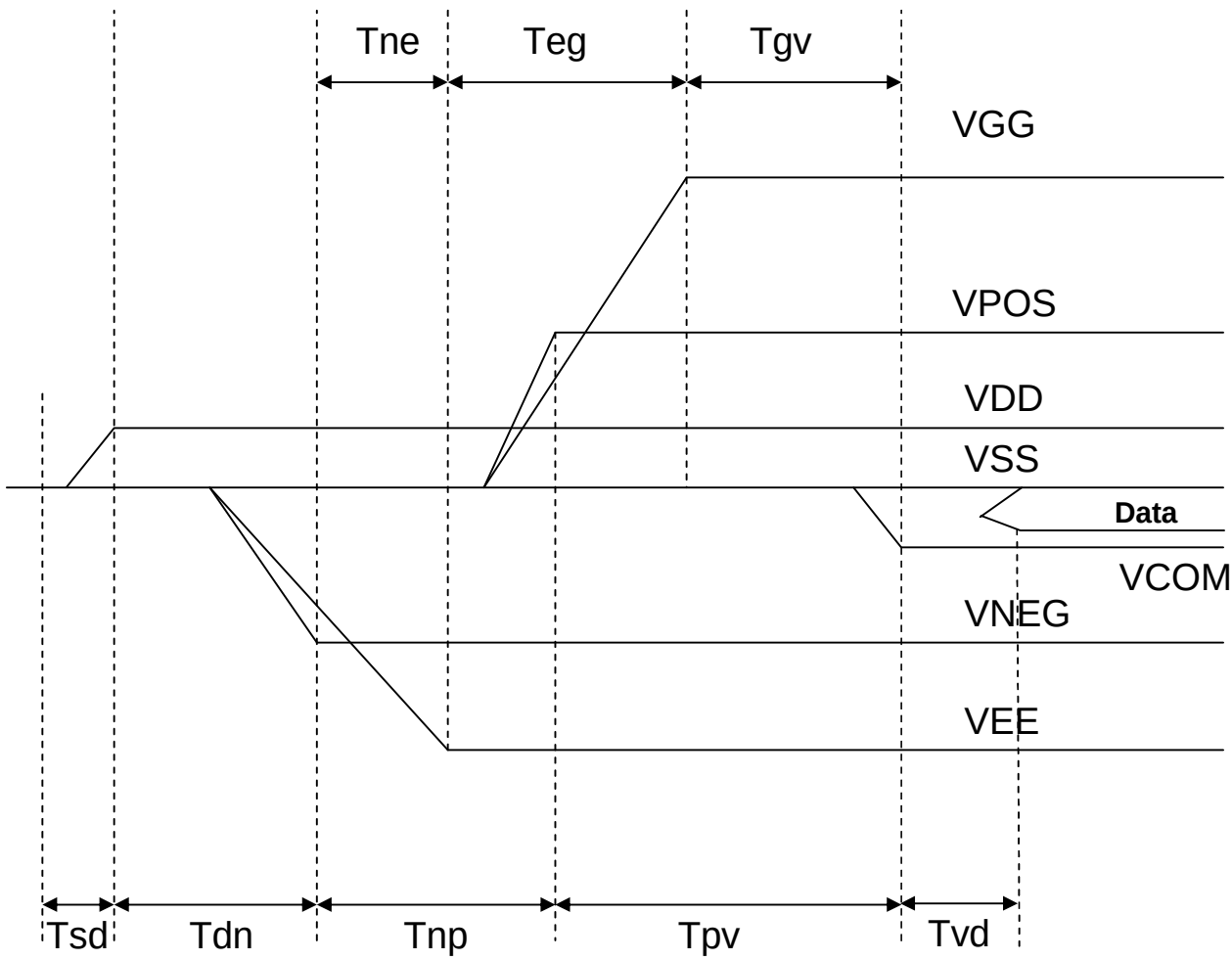
**7.Power on Sequence**

Power Rails must be sequenced in the following order：

1. VSS → VDD → VNEG → VPOS (Source driver) → VCOM

2. VSS → VDD → VEE → VGG (Gate driver)

**POWER ON**




| | Min | Max |
|---|---|---|
| Tsd | 100us | - |
| Tdn | 100us | - |
| Tnp | 1000us | - |
| Tpv | 100us | - |
| Tvd | 100us | - |
| Tne | 0us | - |
| Teg | 1000us | - |
| Tgv | 100us | - |

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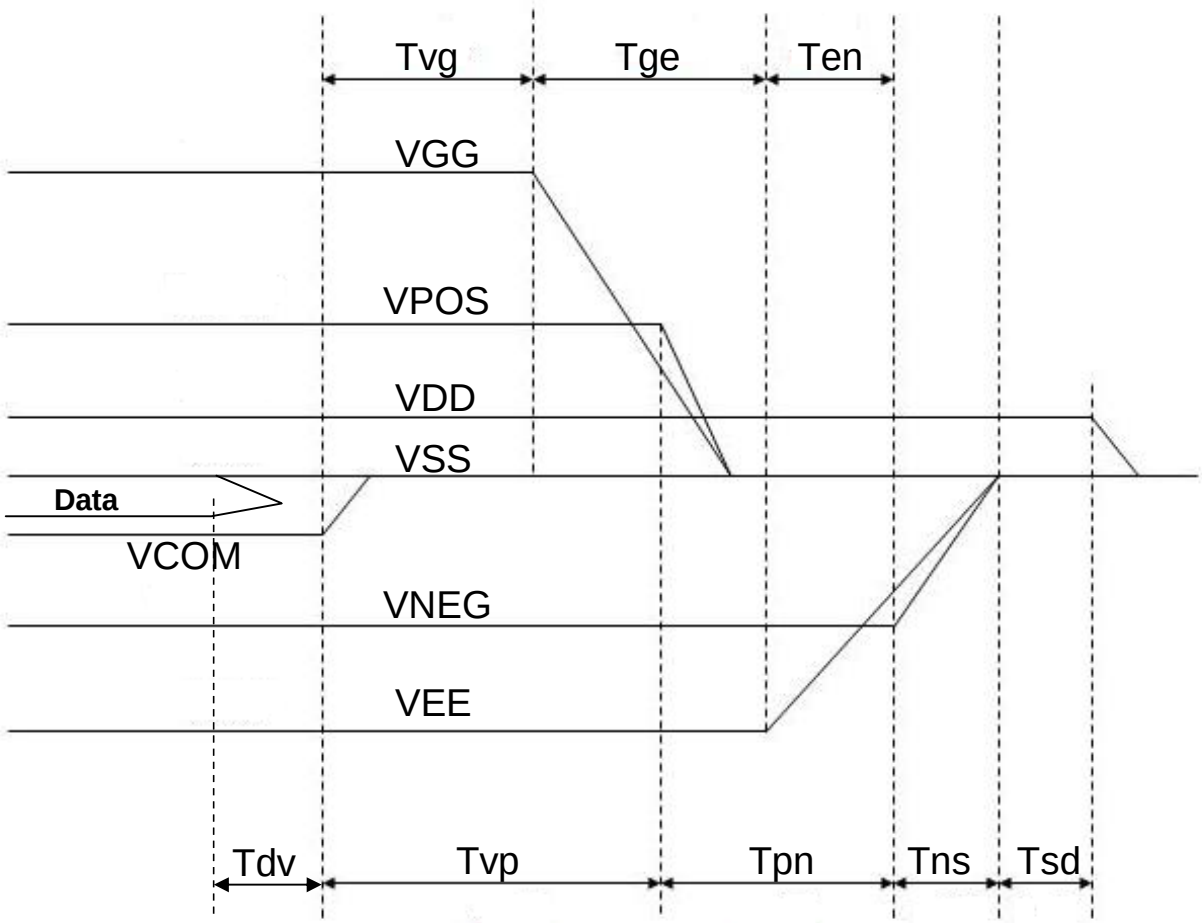
**POWER DOWN**




| | Min | Max |
|---|---|---|
| Tdv | 100 μs | - |
| Tvp | 0 μs | - |
| Tpn | 0 μs | - |
| Tns | - | 1000ms |
| Tsd | 100 μs | - |
| Tvg | 0 μs | - |
| Tge | 0 μs | - |
| Ten | 0 μs | - |

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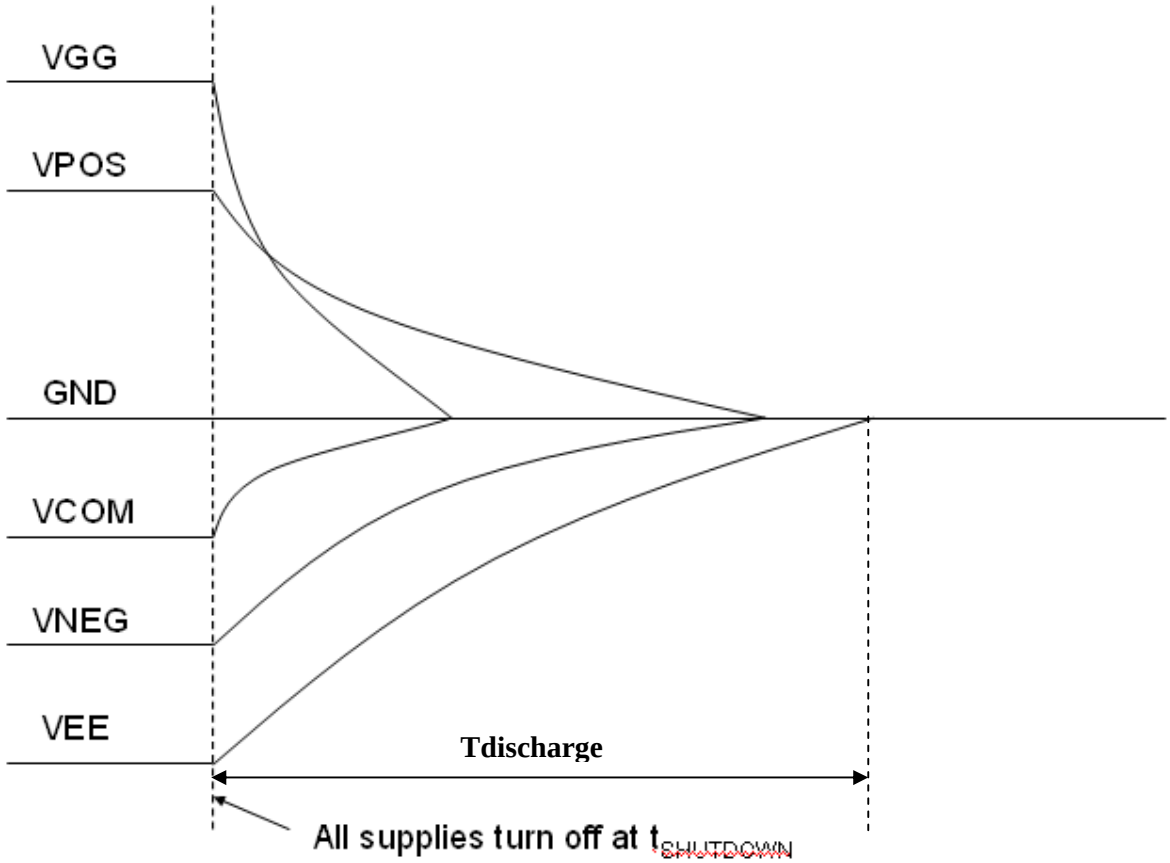
## 8. Discharge time Sequence




Note8-1：Supply voltages decay through pulldown resistors.
Note8-2：VEE must remain negative of all other supplies during decay period.

### 8-1) Refresh Rate

The module ED60SCE is applied at a maximum screen refresh rate of 85Hz.

| | Min | Max |
|---|---|---|
| **Refresh Rate** | - | 85Hz |

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## 9. Optical characteristics

### 9-1) Specifications

Measurements are made with that the illumination is under an angle of 45 degrees, the detection is perpendicular unless otherwise specified.

T = 25°C

| Symbol | Parameter | Conditions | Min | Typ. | Max | Unit | Note |
|---|---|---|---|---|---|---|---|
| R | Reflectance | White | 30 | 40 | - | % | Note 9-1 |
| Gn | $N_{th}$ Grey Level | - | - | DS+(WS-DS) ×n/(m-1) | - | L* | - |
| CR | Contrast Ratio | - | 10 | 12 | - | | - |

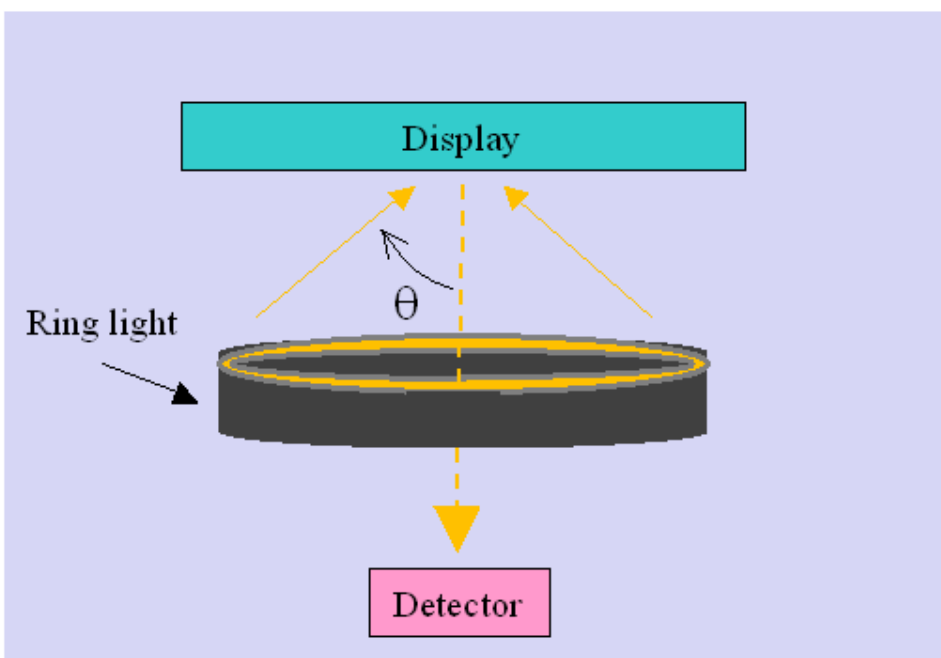
WS: White state , DS: Dark state, Gray state from Dark to White :DS 、G1、G2…、Gn…、Gm-2、WS

m:4、8、16 when 2、3、4 bits mode

Note 9-1: Luminance meter: Eye – One Pro Spectrophotometer

### 9-2) Definition of contrast ratio

The contrast ratio (CR) is the ratio between the reflectance in a full white area (Rl) and the reflectance in a dark area (Rd): CR = Rl / Rd

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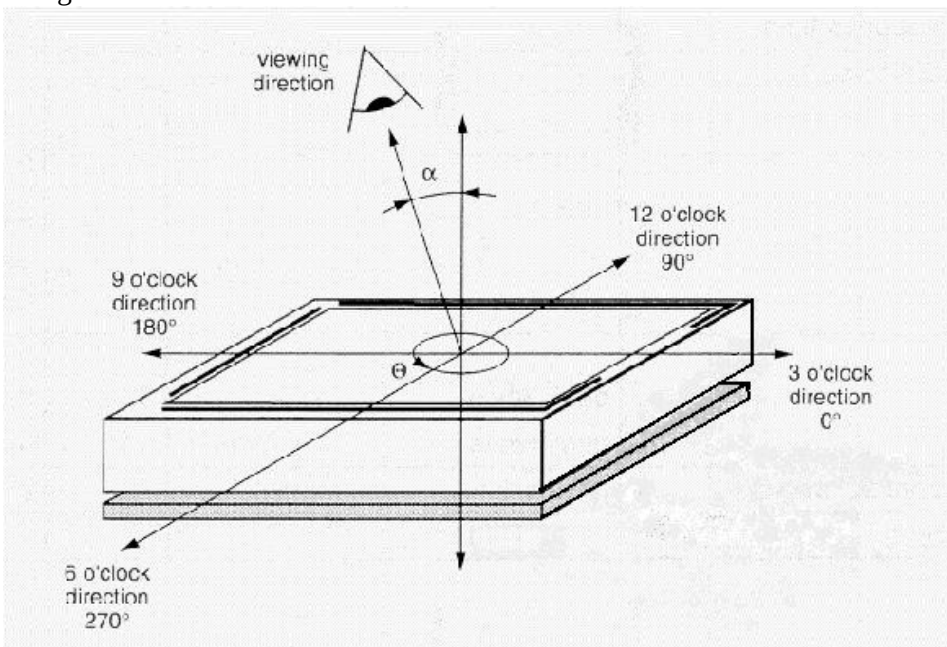
**9-3) Reflection Ratio**

The reflection ratio is expressed as:

$R = \text{Reflectance Factor}_{\text{white board}} \times ( L_{\text{center}} / L_{\text{white board}} )$

$L_{\text{center}}$ is the luminance measured at center in a white area (R=G=B=1). $L_{\text{white board}}$ is the luminance of a standard white board. Both are measured with equivalent illumination source. The viewing angle shall be no more than 2 degrees.




α = declination / θ = azimuth

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## 10.HANDLING, SAFETY AND ENVIROMENTAL REQUIREMENTS

| WARNING |
|---|
| The display glass may break when it is dropped or bumped on a hard surface. Handle with care. Should the display break, do not touch the electrophoretic material. In case of contact with electrophoretic material, wash with water and soap. |

| CAUTION |
|---|
| The display module should not be exposed to harmful gases, such as acid and alkali gases, which corrode electronic components. |
| Disassembling the display module can cause permanent damage and invalidate the warranty agreements. |
| IPA solvent can only be applied on active area and the back of a glass. For the rest part, it is not allowed. |

| Mounting Precautions |
|---|
| (1) It`s recommended that you consider the mounting structure so that uneven force (ex. Twisted stress) is not applied to the module. |
| (2) It`s recommended that you attach a transparent protective plate to the surface in order to protect the EPD. Transparent protective plate should have sufficient strength in order to resist external force. |
| (3) You should adopt radiation structure to satisfy the temperature specification. |
| (4) Acetic acid type and chlorine type materials for the cover case are not desirable because the former generates corrosive gas of attacking the PS at high temperature and the latter causes circuit break by electro-chemical reaction. |
| (5) Do not touch, push or rub the exposed PS with glass, tweezers or anything harder than HB pencil lead. And please do not rub with dust clothes with chemical treatment. Do not touch the surface of PS for bare hand or greasy cloth. (Some cosmetics deteriorate the PS) |
| (6) When the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaks with petroleum benzene. Normal -hexane is recommended for cleaning the adhesives used to attach the PS. Do not use acetone, toluene and alcohol because they cause chemical damage to the PS. |
| (7) Wipe off saliva or water drops as soon as possible. Their long time contact with PS causes deformations and color fading. |

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| Data sheet status | |
|---|---|
| Product specification | This data sheet contains final product specifications. |
| **Limiting values** | |
| Limiting values given are in accordance with the Absolute Maximum Rating System (IEC 134). Stress above one or more of the limiting values may cause permanent damage to the device. These are stress ratings only and operation of the device at these or at any other conditions above those given in the Characteristics sections of the specification is not implied. Exposure to limiting values for extended periods may affect device reliability. | |
| **Application information** | |
| Where application information is given, it is advisory and does not form part of the specification. | |

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## 11. Reliability test

| | TEST | CONDITION | METHOD |
|---|---|---|---|
| 1 | High-Temperature Operation | T = +50°C, RH = 30% for 240 hrs | IEC 60 068-2-2Bp |
| 2 | Low-Temperature Operation | T = 0°C for 240 hrs | IEC 60 068-2-2Ab |
| 3 | High-Temperature Storage | T = +70°C, RH=23% for 240 hrs<br>Test in white pattern | IEC 60 068-2-2Bp |
| 4 | Low-Temperature Storage | T = -25°C for 240 hrs<br>Test in white pattern | IEC 60 068-2-1Ab |
| 5 | High-Temperature, High-Humidity Operation | T = +40°C, RH = 90% for 168 hrs | IEC 60 068-2-3CA |
| 6 | High Temperature,<br>High- Humidity Storage | T = +60℃, RH=80% for 240hrs<br>Test in white pattern | IEC 60 068-2-3CA |
| 7 | Temperature Cycle | -25℃→+70℃, 100 Cycles<br>30min 30min<br>Test in white pattern | IEC 60 068-2-14 |
| 8 | UV exposure Resistance | 765 W/m$^2$ for 168hrs,40℃<br>Test in white pattern | IEC60 068-2-5Sa |
| 9 | Package Vibration | 1.04G, Frequency: 10~500Hz<br>Direction: X,Y,Z<br>Duration: 1 hours in each direction | Full packed for shipment |
| 10 | Package Drop Impact | Drop from height of 122 cm on concrete surface.<br>Drop sequence: 1 corner, 3 edges, 6 faces<br>One drop for each. | full packed for shipment |
| 11 | Electrostatic Effect<br>(non-operating) | (Machine model)+/− 250V<br>0Ω, 200pF | IEC 62179, IEC 62180 |
| 12 | Altitude test<br>Operation | 700hPa ( = 3000m ),48Hr | |
| 13 | Altitude test<br>Storage | 260hPa ( = 10000m ),48Hr<br>Test in white pattern | |
| 14 | Stylus Tapping | POLYACETAL Pen: Top R:0.8mm<br>Load: 200gf<br>Speed: 30 times/min<br>Total 13,500times, | |

Actual EMC level to be measured on customer application

Note : The protective film must be removed before temperature test.

< Criteria >

1、Main display module should no defect of function, screen quality and appearance (including : Line,no image)

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## 12.Bar Code definition

| E01 | 00 | 4 | 01 | 1 | I | 7 | 4 | 00361 | A | T |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 2 | 5 | 6 | 2 | 7 | 2 | 8 |

1-EPD Model Code

| EPD Model Code | Part Number |
|---|---|
| E41 | ED060SCE |

2-Internal Control Codes

DO NOT CARE

3-FPL Version Code

| FPL Version Code | Platform |
|---|---|
| 3 | Eink ver. 2.3 |
| 4 | Eink ver. V110 |
| 5 | Eink ver. V110A |
| 6 | Eink ver. V220C |
| 7 | Eink ver. V250 |
| 8 | Eink ver. V220E |

4-FPL Batch Code

| FPL Batch Code | Translation |
|---|---|
| 01-99 | 001-099 |
| A0-A9 | 100-109 |
| B0-B9 | 110-119 |
| .<br>.<br>. | .<br>.<br>. |
| Z0-Z9 | 320-329 |

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5-Year

| Year | Translation |
|---|---|
| F | 2005 |
| G | 2006 |
| H | 2007 |
| I | 2008 |
| J | 2009 |
| K | 2010 |
| .<br>.<br>. | .<br>.<br>. |
| Z | 2025 |

6-Month

| Month | Translation |
|---|---|
| 1 | Jan |
| 2 | Feb |
| 3 | Mar |
| 4 | Apr |
| 5 | May |
| 6 | Jun |
| 7 | Jul |
| 8 | Aug |
| 9 | Sep |
| A | Oct |
| B | Nov |
| C | Dec |

7-Serial Number

| Serial Number |
|---|
| 00000-99999 |

8-Module Manufacturer Code

| Module Manufacturer Code | Translation |
|---|---|
| T | TOC |
| P | EIH |

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## 13. Border definition

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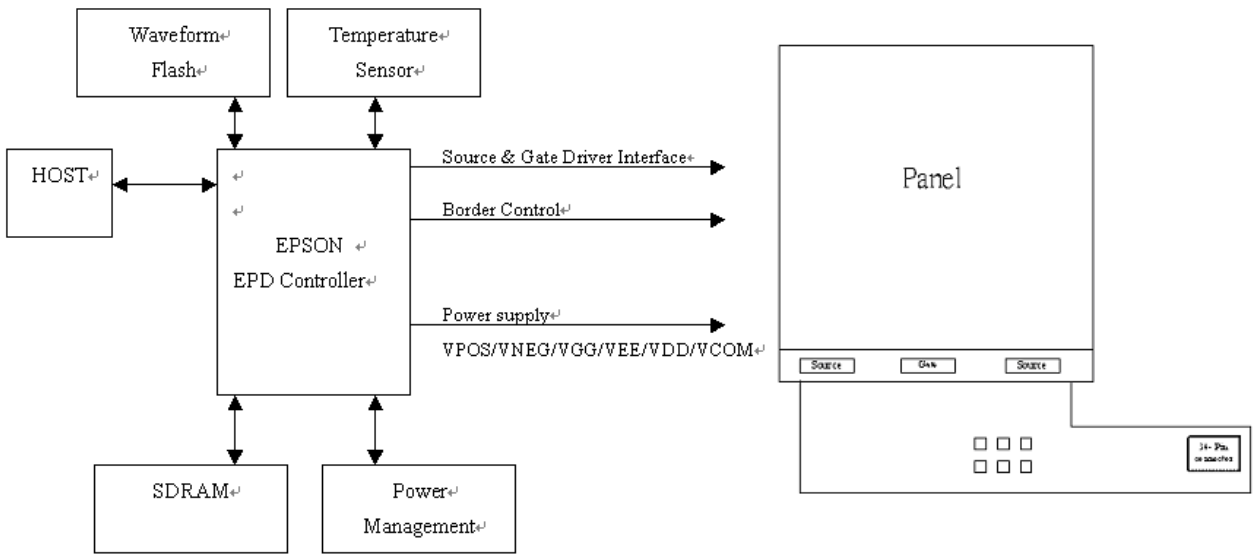
## 14.Block Diagram

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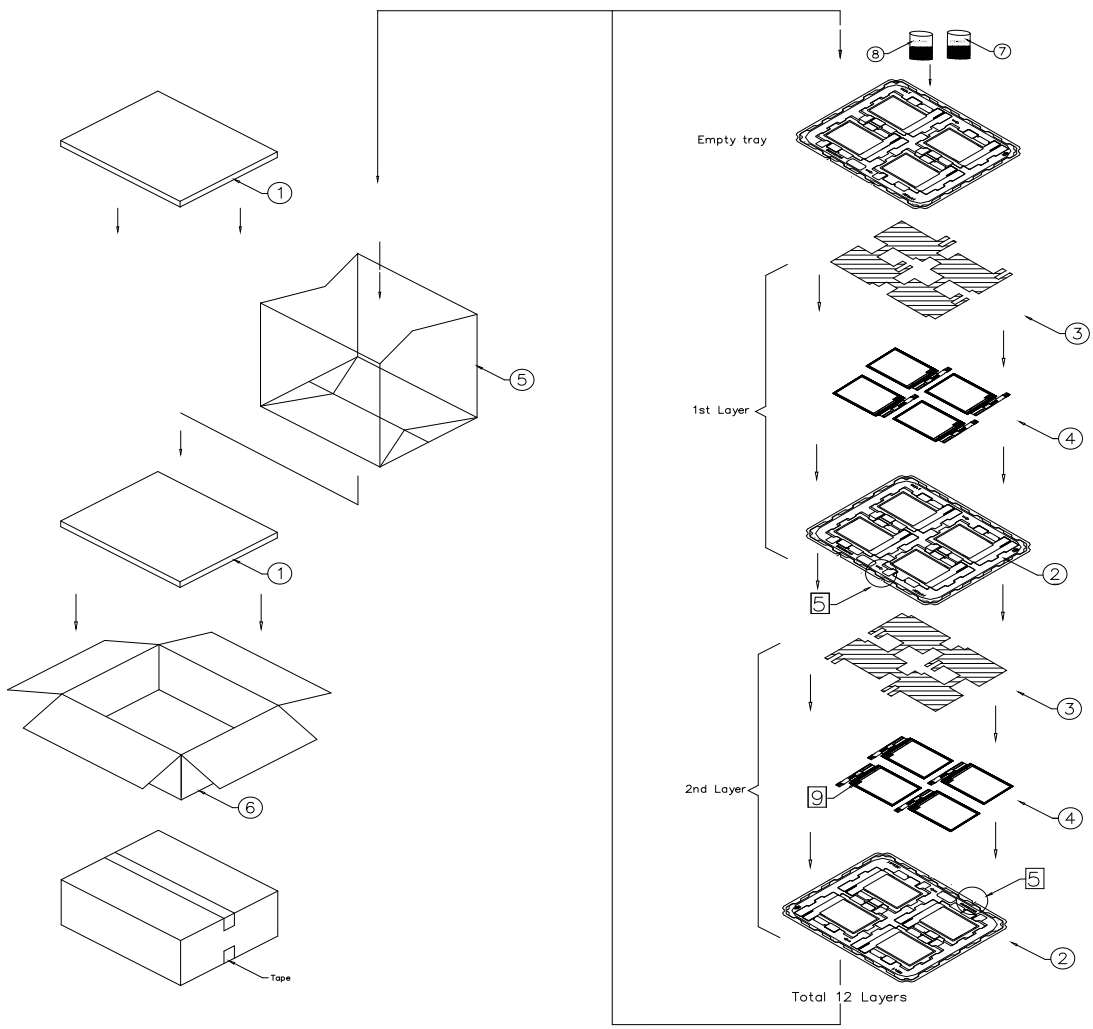
## 15.Packing

| REV | DESCRIPTION | DESIGN | DATE |
|---|---|---|---|
| 00 | INITIAL RELEASE | Charlie | '10.07.20 |




NOTE:
1. One layer include: 1 piece of cushion sheet, 4 pcs module & 1 piece of tray.
2. Q'TY: 48 pcs panel/carton.
3. Dimension: 455*375*190mm
4. Weight: 4.8 KG
5. Make sure tray stacked with 180° rotation. We can check this by lateral side view.

| ITEM | PART NO. | DESCRIPTION | QTY | REMARK |
|---|---|---|---|---|
| 9 | 99-1310114 | EASY TAPE | 48 | For Remove Protect Sheet |
| 8 | 99-3100075 | 30g加厚複合紙活動乾燥劑73*95mm(高科JK0030) | 2 | |
| 7 | 50-0700021 | 防鏽劑(保護容積25L) | 3 | |
| 6 | 50-0100096 | CARTON INTERNAL | 1 | |
| 5 | 50-0510041 | 摺口袋450*380*700mm | 1 | 抗靜電 |
| 4 | | ED060SCE | 48 | |
| 3 | 50E0210111 | EPE CUSHION SHEET | 12 | 抗靜電 |
| 2 | 50E0310161 | TRAY | 13 | 抗靜電 |
| 1 | 50-0300491 | EPE FOAM | 2 | |

| | | | |
|---|---|---|---|
| MTL.SPEC. | UNSPECIFIED TOL'S ±5.0mm<br>ANGLE<br>ROUGHNESS | REMARK | 元太科技股份有限公司<br>E Ink Holdings Inc. |

| | | | | | | |
|---|---|---|---|---|---|---|
| APPROVE | Patrick Lin | '10.07.20 | SCALE 1:1 | UNIT mm | SHEET 1 OF 1 | DWG.TITLE ED060SCE PACKING Dim |
| CHECK | Patrick Lin | '10.07.20 | | | | |
| DESIGN | CharlieYang | '10.07.20 | MTL.NO. | DWG.NO. | REV. 01 | A4 SIZE |

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