YOURITech
AN EUROTECH COMPANY

INDUSTRIAL STRENGTH...
Start Your Application From YOURITECH

Integration support
Obsolescence Management
PCAP
Embedded Systems
Human Machine Interface
Touch Solutions
Production
Custom designs
Installation
Software
Mechanical design
Quality Management
Open Frame Monitors
LCD Controller
Research & Development
Firmware
EMC tests
on-site service
In-house Manufacturing
Optical Bonding
Cover glass
System solutions
OEM Solutions
Custom Display

Erotech YOURITech AN EUROTECH COMPANY AOSHITE 奥视特 Your Reliable Display Panel and Smart Touch Embedded Solution Partner

For more information about comprehensive display panels and touch embedded solutions, welcome contact us at:

https://www.youritech.com
info@youritech.com

DISPLAY MODULE SPECIFICATION

Customer: _____

Module No.: ET039F8CSFS01-G

Date: 2025-09-13

Version: 1.0

For Customer's Acceptance:

Approved by	Comment

Approved by	Checked by	Prepared by
Haitao Zhou	Hongwei Li	Lanchang Zhang

Record of Revision

Rev.	Date	Description	Editor
1.0	2025-09-13	First release	Lanchang.Zhang

Table of Contents

Record of Revision 2
1 General Specifications 5
2 Pin Description 6
3 Mechanical Specification 9
4 Absolute Maximum Ratings 10
5 Block Diagram 11
6 Optical Characteristics 12

1. General Specifications

1.1 Product Overview:

ET039F8CSFS01-G is a monocular silicon-based OLED display driver product developed by YOURITECH. This product uses the SH1.0 connector as the CVBS input,power input, and button control interface, and outputs RGB signals. It supportsadjusting display parameters through the OSD menu. Can be applied to demodisplay of YOURITECH silicon-based products, product feature evaluation, and secondarydevelopment of products based on this driver board. This solution is particularlysuitable for markets with small size requirements, such as optical aiming

, nightvision imaging, industrial inspection, security monitoring, outdoor exploration

1.2 Features:

No.	Item	Specification	Unit
1	Panel Size	0.39	Inch
2	Number of Pixels	1024× (RGB) ×768	Pixels
3	Active Area	8.13(H) × 6.18 (V)	mm
4	Pixel Pitch	7.8(H)× 7.8(V)	um
5	Outline Dimension(OLED)	16.60(W) × 14.20(H)	mm
6	Outline Dimension(PCB)	28.00(W) × 28.00(H)	mm
7	Number of Colors	16.7M	--
8	Display Mode	Normally Black	--
9	View Direction	All	--
10	Display Format	/	--
11	Surface Treatment	/	--
12	Contrast Ratio	10000(Typ.)	--
13	Luminance (cd/m^2)	600(Typ.)	cd/m2
14	Video Input Interface	/	
15	Touch panel	/	
16	Backlight	/	
17	Operation Temperature	-20 to +70	℃
18	Storage Temperature	-40 to +80	℃
19	Weight	(TBD)	g

2. Pin Descriptions

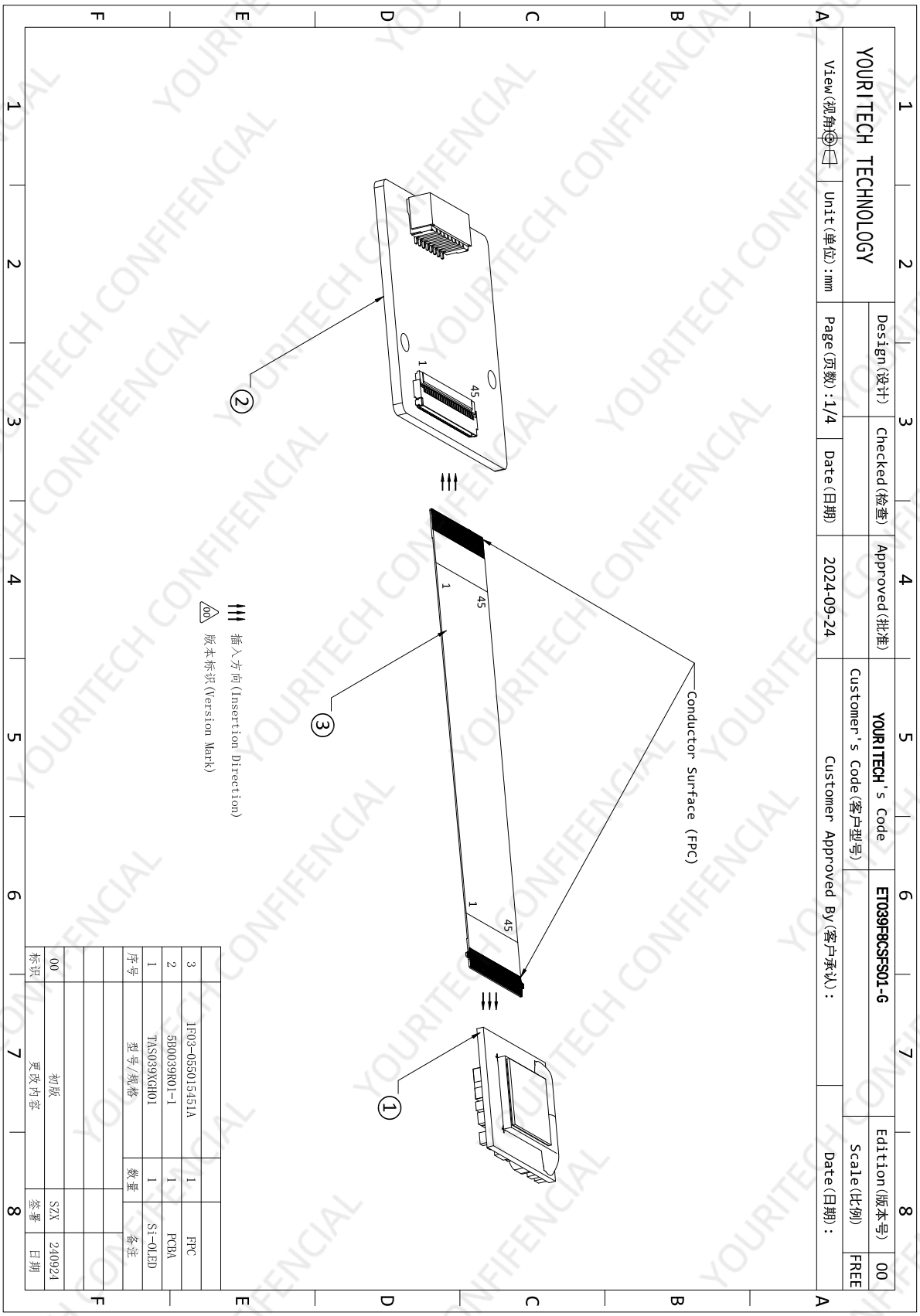
2.1 CVBS Pin assignment

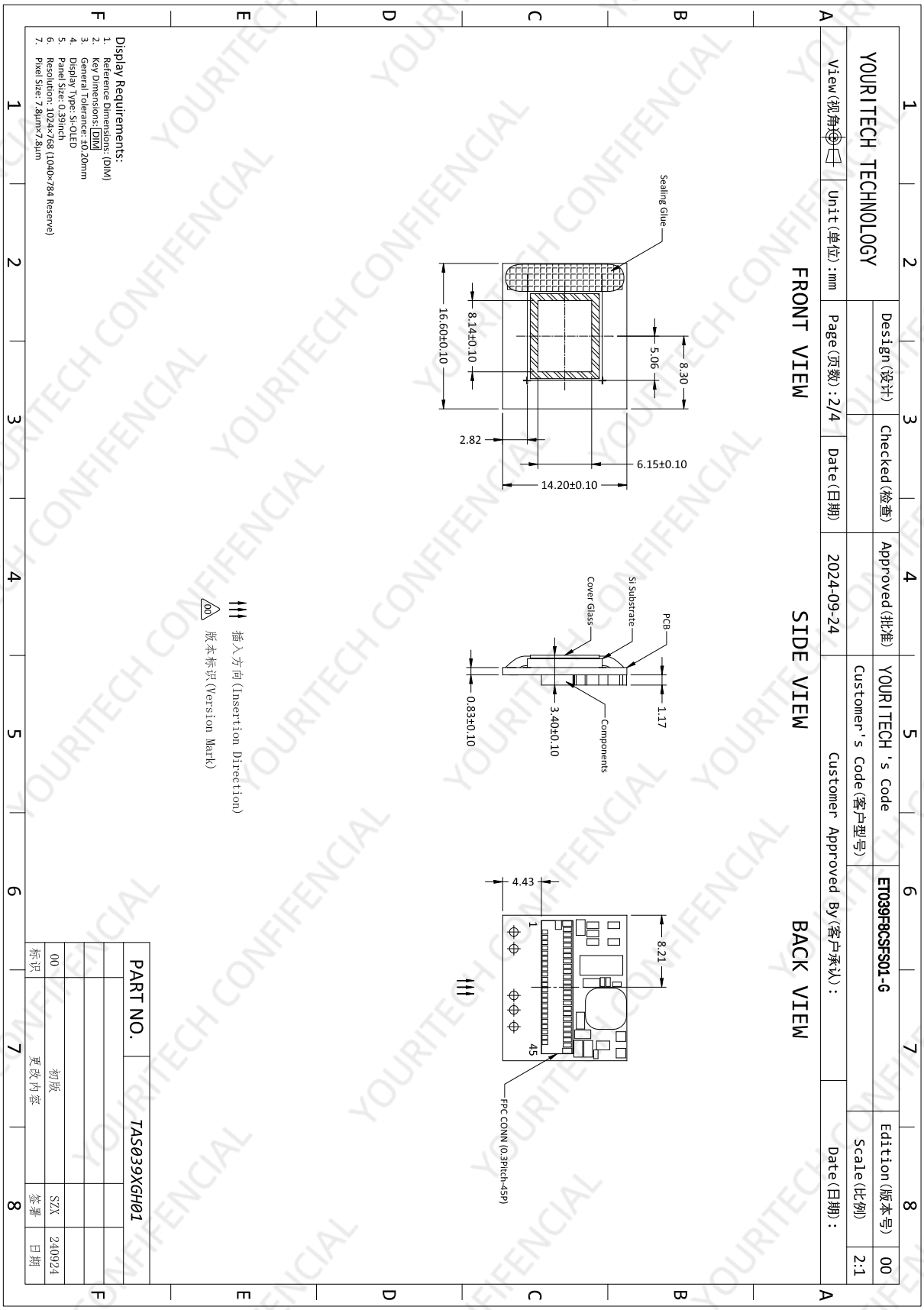
CVBS type:CONN-SMD_8P-P1.00_XUNPU_WAFER-SH1.0-8PLB or compatible.

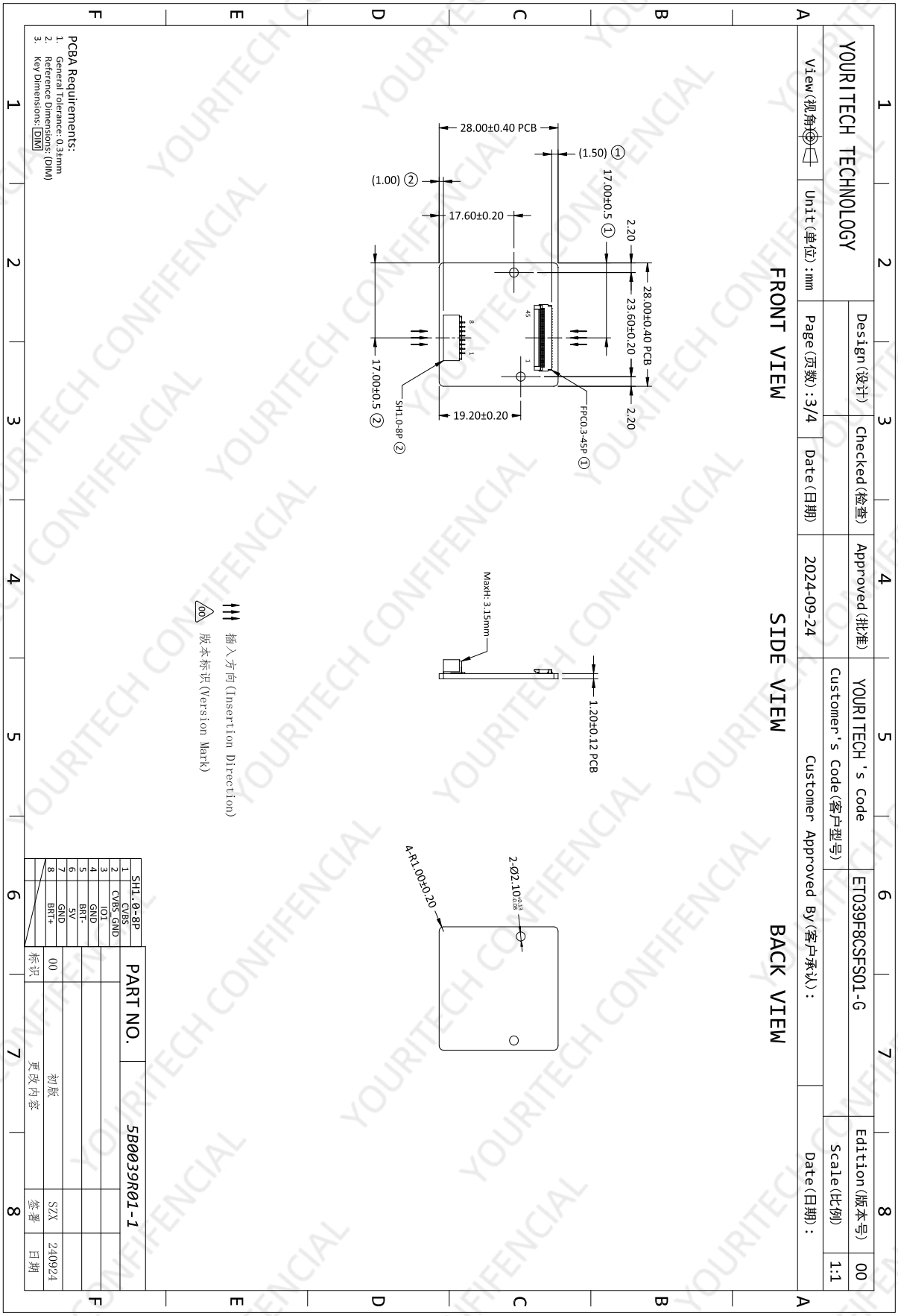
PIN	Symbol	I/O	Function	Note
1	CVBS	I	CVBS signal Input	
2	AGND	P	CVBS signal ground	
3	KEY3	I	Button 3	
4	GND	P	Power Ground	
5	KEY2	I	Button 2	
6	VCC	I	Power(+5V)	
7	GND	P	Power Ground	
8	KEY1	I	Button 1	

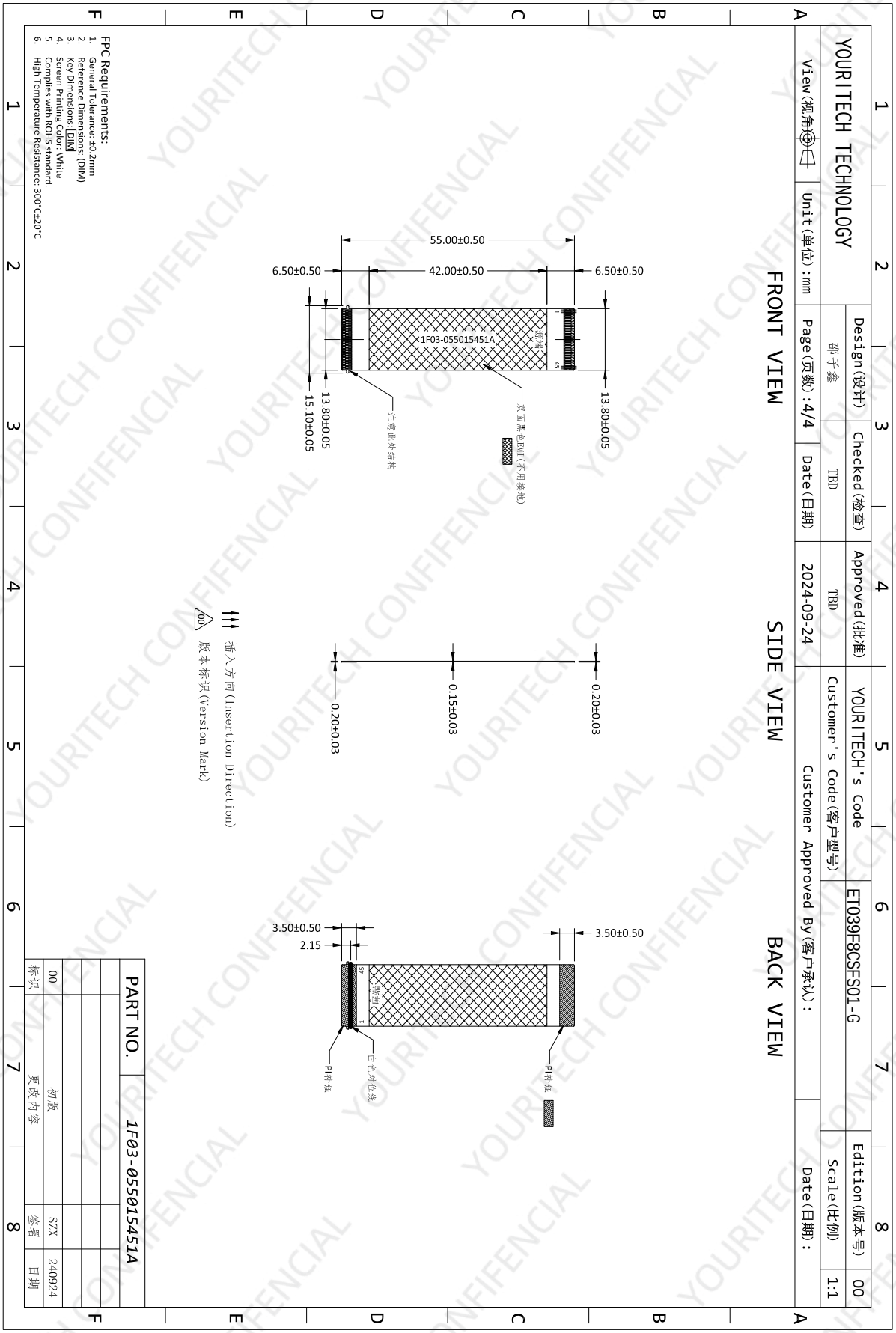
I---Input, O---Output, P--- Power/Ground

3. Mechanical Specification




YOURITECH TECHNOLOGY
Design(设计)
Checked(检查)
Approved(批准)
YOURITECH 's Code
ET039F8CSFS01-G
Edition(版本号)
00
View(视角):
Page(页数):2/4
Date(日期)
2024-09-24
Customer's Code(客户型号)
Scale(比例)
2:1
Unit(单位):mm
Customer Approved By(客户承认):
Date(日期):
FRONT VIEW
SIDE VIEW
BACK VIEW
Sealing Glue
16.60±0.10
8.14±0.10
5.06
8.30
2.82
6.15±0.10
14.20±0.10
Cover Glass
Si Substrate
PCB
Components
0.83±0.10
3.40±0.10
1.17
4.43
8.21
FPC CONN (0.3Pitch-45P)
Display Requirements:
1. Reference Dimensions: (DIM)
2. Key Dimensions: DIM
3. General Tolerance: ±0.20mm
4. Display Type: Si-OLED
5. Panel Size: 0.39inch
6. Resolution: 1024×768 (1040×784 Reserve)
7. Pixel Size: 7.8μm×7.8μm
插入方向(Insertion Direction)
00 版本标识(Version Mark)
PART NO.
TAS039XGH01
00
初版
SZX
240924
标识
更改内容
签署
日期


YOURITECH TECHNOLOGY
Design(设计)
Checked(检查)
Approved(批准)
YOURITECH 's Code
ET039F8CSFS01-G
Edition(版本号)
00
View(视角)
Unit(单位):mm
Page(页数):3/4
Date(日期)
2024-09-24
Customer's Code(客户型号)
Scale(比例)
1:1
Customer Approved By(客户承认):
Date(日期):
FRONT VIEW
SIDE VIEW
BACK VIEW
28.00±0.40 PCB
(1.50) ①
(1.00) ②
17.00±0.5 ①
17.60±0.20
2.20
23.60±0.20
28.00±0.40 PCB
2.20
17.00±0.5 ②
SH1.0-8P ②
19.20±0.20
FPC0.3-45P ①
MaxH: 3.15mm
1.20±0.12 PCB
4-R1.00±0.20
2-Ø2.10
插入方向(Insertion Direction)
00 版本标识(Version Mark)
PCBA Requirements:
1. General Tolerance: 0.3±mm
2. Reference Dimensions: (DIM)
3. Key Dimensions: DIM
SH1.0-8P
1 CVBS
2 CVBS_GND
3 IO1
4 GND
5 BRT-
6 5V
7 GND
8 BRT+
PART NO.
5B0039R01-1
标识
00
初版
SZX
240924
更改内容
签署
日期


YOURITECH TECHNOLOGY
View(视角) 第一角
Unit(单位):mm
Page(页数):4/4
Design(设计) 邵子鑫
Checked(检查) TBD
Approved(批准) TBD
Date(日期) 2024-09-24
YOURITECH's Code
Customer's Code(客户型号)
Customer Approved By(客户承认):
Date(日期):
ET039F8CSFS01-G
Edition(版本号) 00
Scale(比例) 1:1
FRONT VIEW
SIDE VIEW
BACK VIEW
55.00±0.50
42.00±0.50
6.50±0.50
6.50±0.50
13.80±0.05
13.80±0.05
15.10±0.05
1F03-055015451A
注意此处结构
双面黑色EMI(不用接地)
0.20±0.03
0.15±0.03
0.20±0.03
3.50±0.50
2.15
3.50±0.50
PI补强
白色对位线
PI补强
插入方向(Insertion Direction)
00 版本标识(Version Mark)
FPC Requirements:
1. General Tolerance: ±0.2mm
2. Reference Dimensions: (DIM)
3. Key Dimensions: DIM
4. Screen Printing Color: White
5. Complies with ROHS standard.
6. High Temperature Resistance: 300℃±20℃
PART NO. 1F03-055015451A
标识 00 初版 SZX 240924
更改内容 签署 日期

4. Absolute Maximum Ratings

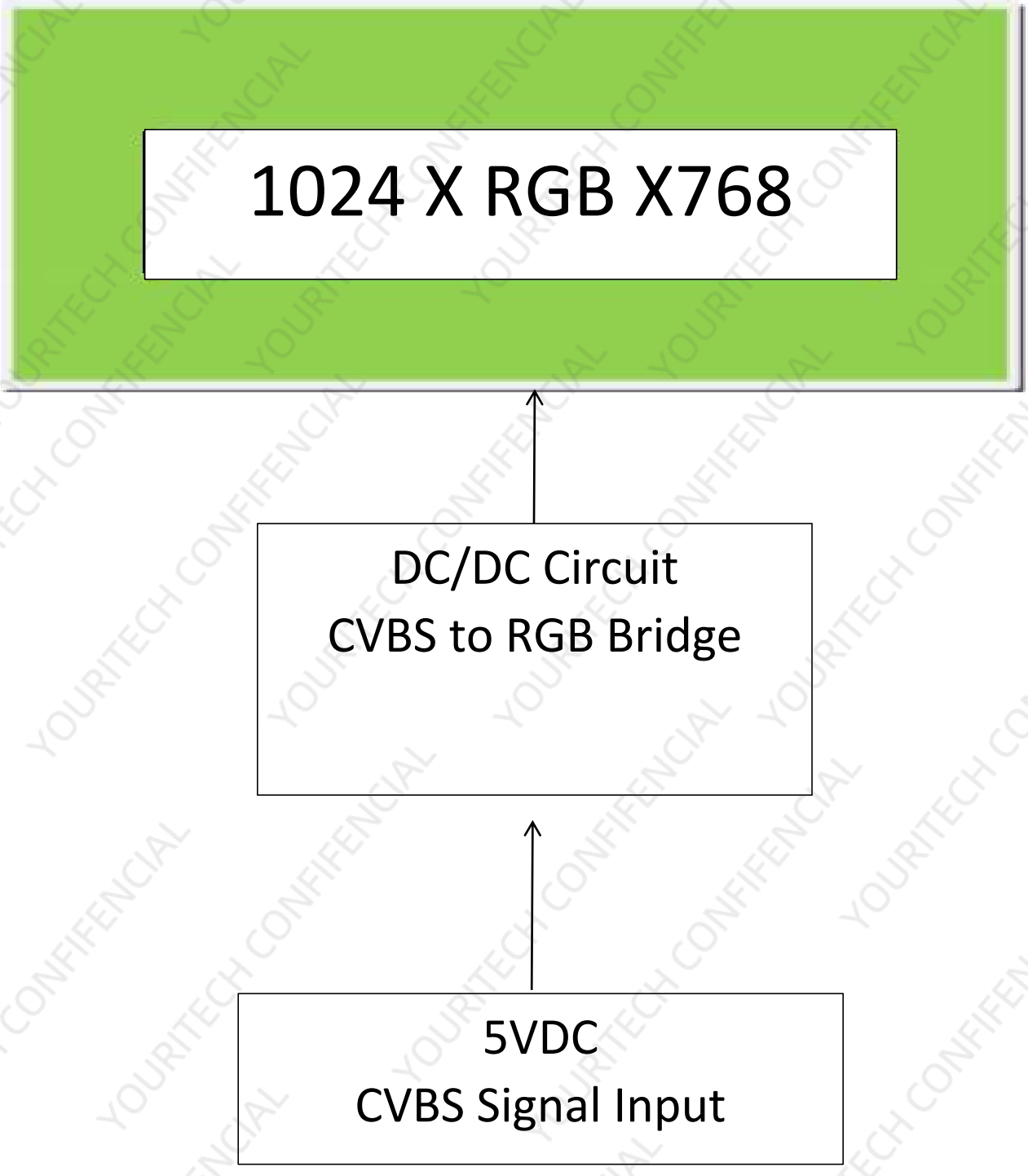
Electrical Absolute Rating

Item	Symbol	Values			Unit	Note
		Min.	Typ	Max.		
Power supply voltage	5V	4.5	5	5.5	V	
Input current	-	0.18	0.17	0.16	A	
Input Power	-	0.81	0.85	0.88	W	

Environment Absolute Rating

Item	Symbol	Values			Unit	Note
		Min.	Typ	Max.		
Operating Temperature	Top	-20.0	-	70.0	℃	
Storage Temperature	Tst	-40.0	-	80.0	℃	

5. Block Diagram



6. Optical Characteristics

Item	Description	Min.	Typ.	Max.	Unit
Brightness		-	200	-	cd/m2
CR	white to Black Contrast Ratio	31000	-	-	
Uniformity	End to end large-area uniformity -	90	95	100	%
CIE Red	CIE-x	0.57	0.60	0.63	
	CIE-y	0.30	0.33	0.36	
CIE Green	CIE-x	0.20	0.23	0.26	
	CIE-y	0.60	0.63	0.66	
CIE Blue	CIE-x	0.11	0.14	0.17	
	CIE-y	0.04	0.07	0.10	
CIE White	CIE-x	0.28	0.31	0.34	
	CIE-y	0.30	0.33	0.36	
Color Gamut	DCI-P3	-	-	-	
View angle (White)	Luminance decay to 50%	-	-	-	
Frame rate		25	-	75	HZ
Power consumption	1800nits，100%duty_1920×1920input_1.33scaling up_No DSC_72Hz	-	65	-	mW