

# TSG128128D Series

## Display Feature



Item	Value
Structure	COG
LCD Display Mode	FSTN, Positive, Transflective
Viewing Angle	6H
Driving Method	1/128 duty, 1/12 bias
Backlight	Nil
Control/Driver IC	SSD1779

## Mechanical Data

Item	Value
Outline	49.0 x 53.0 x 2.0Max.
Viewing Area	46.0 x 38.0
Active Area	35.81 x 35.81
Dot Pitch	0.28 x 0.28
Dot Size	0.25 x 0.25

## Electrical Characteristics

Item	Symbol	MIN.	TYP.	MAX.
Operating Voltage(V)	V <sub>DD</sub>	2.7	3.0	3.3
Input High Voltage(V)	V <sub>IH</sub>	0.8V <sub>DD</sub>	-	V <sub>DD</sub>
Input Low Voltage(V)	V <sub>IL</sub>	V <sub>SS</sub>	-	0.2V <sub>DD</sub>
Operating Current(mA)	I <sub>DD</sub>	-	-	2.0
Forward Voltage(V)	V <sub>f</sub> BL	-	-	-
Forward Current(mA)	I <sub>f</sub> BL	-	-	-

## Absolute Maximum

Item	MIN.	MAX.
Operating Voltage(V)	0	3.6
Operating Temperature(°C)	-10	+60
Storage Temperature(°C)	-20	+70

## Terminal Function

No.	Pin Name	Descriptions	No.	Pin Name	Descriptions
1~4	V5~V2	LCD driver supply voltage	21	VOUT	Voltage converter input/output
5	VCLX2	Voltage reference output	22	VOUT3	Voltage reference output
6	VDD	Positive Power Supply	23	C3P	Capacitor positive connection
7	VSS	Power Supply (GND,0V)	24	C1Y	Capacitor negative connection
8~15	DB7~DB0	Data Bus lines	25	C1P	Capacitor positive connection
16	E(/RD)	Enable clock	26	C1N	Capacitor negative connection
17	R/W(/WR)	Read/write signal	27	C2N	Capacitor negative connection
18	/CS	Chip enable	28	C2P	Capacitor positive connection
19	A0	Register selection	29	C4P	Capacitor positive connection
20	/RST	Reset signal			

## Outline Drawing

