

### Part number list

SG240128D□□□-□□-□□-□

### Feature

- 1.No Built-in controller
- 2.+3V / +5V single power supply
- 3.(Option) Bult-in Negative voltage

### Pin Assignment

Pin No.	Symbol	Description
1	FRM	Frame Start Signal
2	M	Control Signal for AC driving
3	CL1	Common Fata Shift Signal
4	CL2	Segment Shift Clock Signal
5	V <sub>DD</sub>	Power supply for logic
6	V <sub>SS</sub>	Ground
7	V <sub>EE</sub>	Power supply voltage for LCD
8~11	DB0~DB3	Data bus line
12	V <sub>O</sub>	Contrast Adjustment
13	NC	No Connection

### Mechanical Data

Item	Standard Value	Unit
Module Dimension	144.0 x 104.0	mm
Active Area	107.95 x 57.55	mm
Dot Pitch	0.45 x 0.45	mm
Dot Size	0.43 x 0.43	mm

### Electrical Characteristics

Item	Symbol	Standard Value	Unit
		typ.	
Input Voltage	V <sub>DD</sub>	5.0	V
Recommended LCD Driving Voltage for Normal Temp. Version module @25°C	V <sub>DD</sub> -V <sub>O</sub>	18.0	V

### Mechanical Drawing

