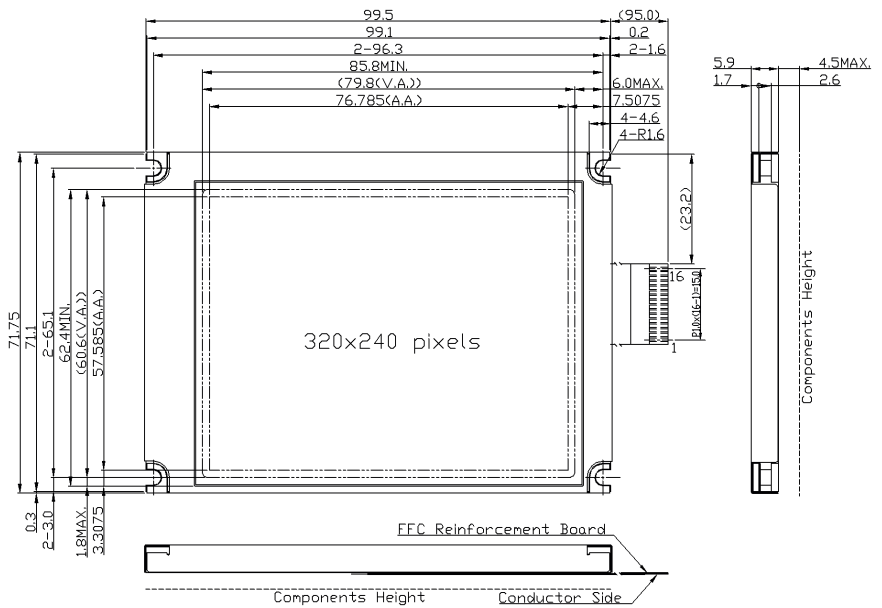


OUTLINE DRAWING

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TERMINAL FUNCTIONS

Pin	Name	Descriptions
1	VOUT	Power Booster Output for V0
2	V0	LCD Contrast Reference Input
3	NC	No connection(leave open)
4	VDD	Positive Power Supply
5	VSS	0V Power Supply, Ground
6	D0	Display Data
7	D1	Display Data
8	D2	Display Data
9	D3	Display Data
10	/DISPOFF	Display ON/OFF control signal /DISPOFF=0, display off /DISPOFF=1, display on
11	LP	Line Pulse signal For latching the segment buffer to the segment Driver
12	M	Controlling signal for the LCD AC driving
13	CP	Clock Pulse signal for shifting the data(D0~D3) into the segment buffer
14	FLM	First Line Marker
15	BLA	LED Backlight Positive Power Supply
16	BLK	LED Backlight Negative Power Supply

DISPLAY CHARACTERISTICS

Item	Value
LCD Display Mode	FSTN, Positive, Transflective
Viewing Angle	9:00
Driving Method	1/240 duty, 1/12 bias
Backlight	White LED

MECHANICAL DATA

Item	Value
Outline (mm)	99.5 x 71.75 x 10.4MAX
Viewing Area (mm)	79.8 x 60.6
Active Area (mm)	76.785 x 57.585
Dot Pitch (mm)	0.24 x 0.24
Dot Size (mm)	0.225 x 0.225

ABSOLUTE MAXIMUM

Item	Symbol	Min	Max
Operating Voltage (V)	V <sub>DD</sub>	-0.3	+6.0
Operating Temperature (°C)	T <sub>OP</sub>	-20	+70
Storage Temperature (°C)	T <sub>ST</sub>	-30	+80

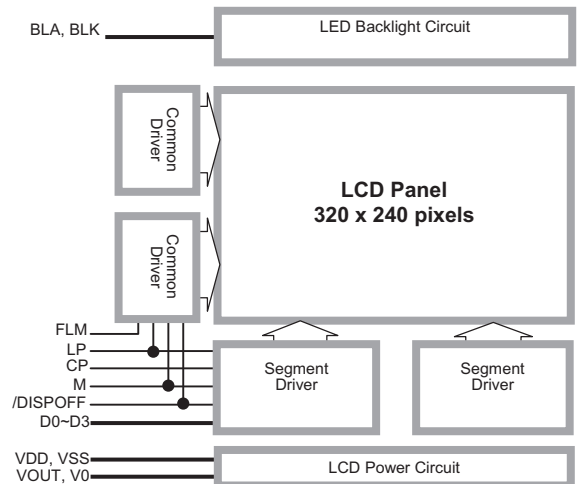
ELECTRICAL CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Operating Voltage (V)	V <sub>DD</sub>	2.8	3.3	5.2
Input High Voltage (V)	V <sub>IH</sub>	0.8 V <sub>DD</sub>	-	V <sub>DD</sub>
Input Low Voltage (V)	V <sub>IL</sub>	0	-	0.2 V <sub>DD</sub>
Operating Current (mA)	I <sub>DD</sub>	-	1.0	2.5

BACKLIGHT CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Forward Voltage (V)	V <sub>fBLA</sub>	-	3.3	-
Forward Current (mA)	I <sub>fBLA</sub>	-	96	130

BLOCK DIAGRAM



LM2068N series

	LCD Mode	DC-DC
	LM2068N-1*	FSTN-Pos
LM2068N-2	FSTN-Pos	Null
LM2068NFW-1	STN-Blue	Built-In

For similar product or (semi) custom made LCD module, please visit our web site or contact us.

\*The above product information is based on this model.