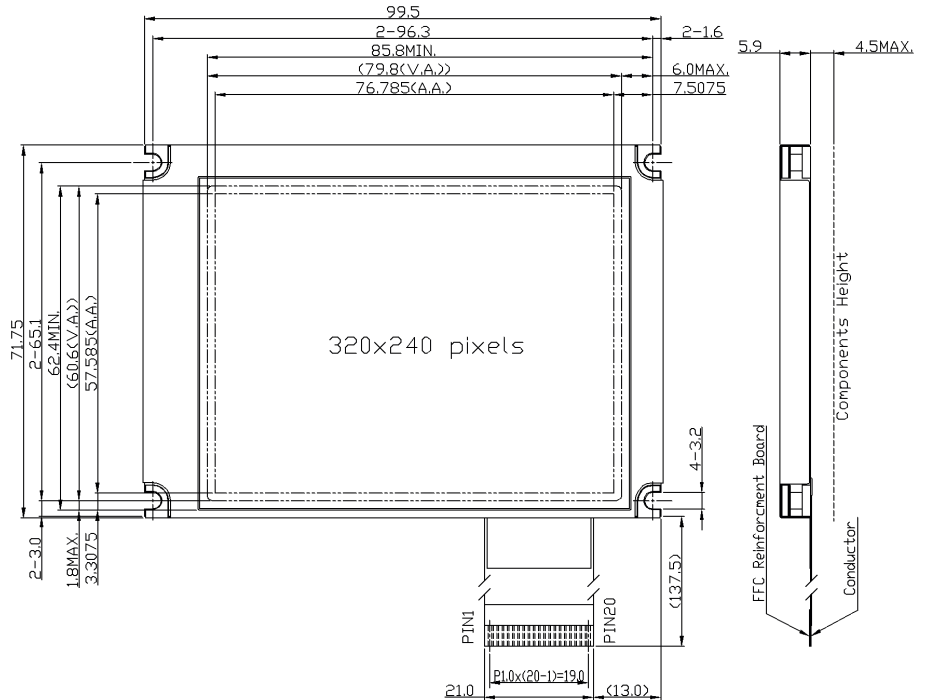


OUTLINE DRAWING



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TERMINAL FUNCTIONS

Pin	Name	Descriptions
1	VSS	0V Power Supply, Ground
2	VDD	Positive Power Supply
3	V0	LCD Contrast Reference Input
4	/WR	Write enable input, active LOW
5	/RD	Read enable input, active LOW
6	/CS	Chip Enable Signal
7	A0	Data Type Select A0=HIGH: command write, display data or cursor add read A0=LOW: command read display data or cursor add write
8	/RES	Reset Signal /RES=L, Reset the LCD Module /RES=H, Normal Running
9	DB0	8-bit bi-directional data bus
:	:	
16	DB7	
17	/WAIT	Wait Signal
18	VOU	Power Booster Output for V0
19	BLA	LED Backlight Positive Power Supply
20	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 Backlight

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	+7.0
Operating Temperature (°C)	T <sub>OP</sub>	-20	+70
Storage Temperature (°C)	T <sub>ST</sub>	-30	+80

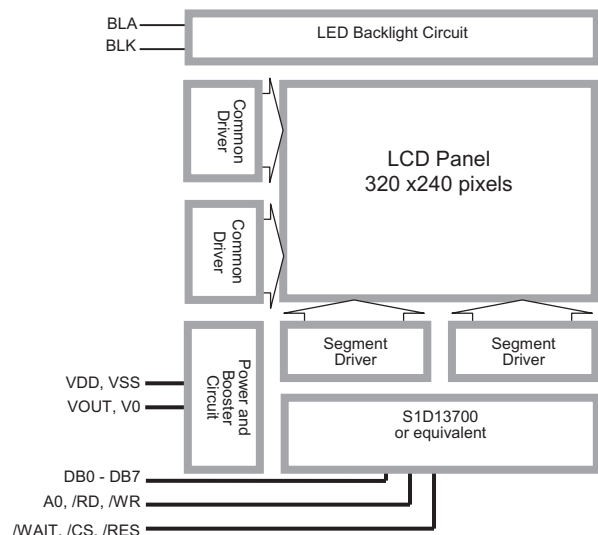
ELECTRICAL CHARACTERISTICS\*

Item	Symbol	Min	Typ	Max
Operating Voltage (V)	V <sub>DD</sub>	3.0	3.3	3.6
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>	V <sub>SS</sub>	-	0.15 V <sub>DD</sub>
Operating Current (mA)	I <sub>DD</sub>	-	24.0	62.0

BACKLIGHT CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Forward Voltage (V)	V <sub>fBLA</sub>	-	3.3	-
Forward Current (mA)	I <sub>fBLA</sub>	-	100	130

BLOCK DIAGRAM



LM2068E series

	Highlight	
	*LCD Mode	**Voltage
LM2068E	FSTN-POS	5.0V
LM2068E-1*	FSTN-POS	3.3V
LM2068EFC	STN-Blue	5.0V
LM2068EFW-1	STN-Blue	3.3V

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.