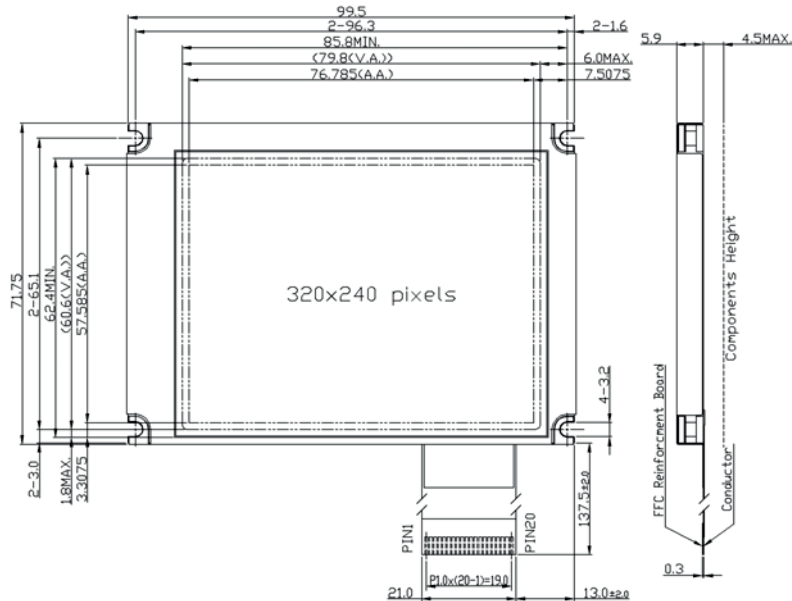


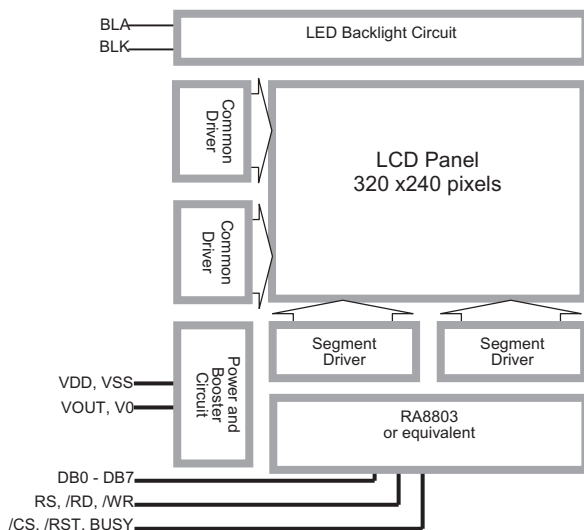
OUTLINE DRAWING



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 Select Signal
7	RS	Register Select RS=H; data read or write RS=L; instruction data write or status busy flag read
8	/RST	Reset Signal /RST=L, Reset the LCD Module /RST=H, Normal Running
9	DB0	8-bit bi-directional data bus
:	:	
16	DB7	
17	BUSY	Controller busy signal
18	VOUT	Power Booster Output for V0
19	BLA	LED Backlight Positive Power Supply
20	BLK	LED Backlight Negative Power Supply

BLOCK DIAGRAM



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 _{DD}	0	+5.5
Operating Temperature (°C)	T _{OP}	-20	+70
Storage Temperature (°C)	T _{ST}	-30	+80

ELECTRICAL CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Operating Voltage (V)	V _{DD}	4.7	5.0	5.3
Input High Voltage (V)	V _{IH}	0.8 V _{DD}	-	V _{DD}
Input Low Voltage (V)	V _{IL}	0	-	0.1 V _{DD}
Operating Current (mA)	I _{DD}	-	18	45

BACKLIGHT CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Forward Voltage (V)	V _{fBLA}	-	5.0	-
Forward Current (mA)	I _{fBLA}	-	100	130

LM2068R series

	Highlight	
	LCD Mode	*Voltage
LM2068R*	FSTN-Pos	5.0V
LM2068R-1	FSTN-Pos	3.3V
LM2068R-3	STN-Blue	3.3V
LM2068R-4 STN-Blue	5.0V	

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.