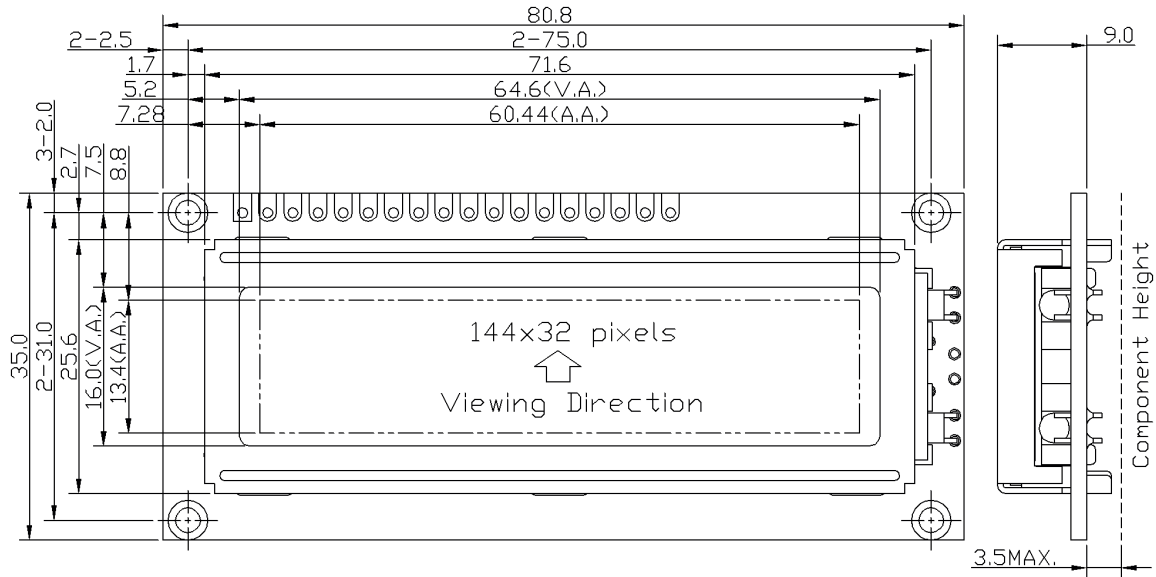


## OUTLINE DRAWING



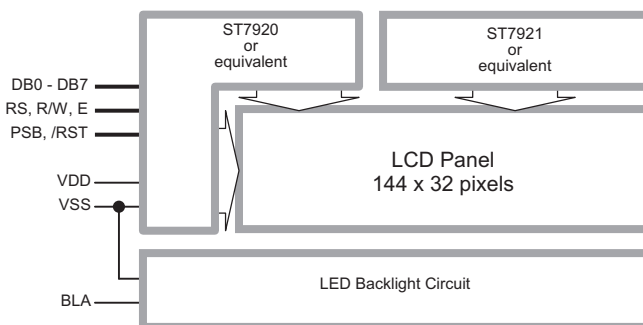
## TERMINAL FUNCTIONS

Pin	Name	Descriptions	
		Parallel Mode (PSB=H)	Serial Mode (PSB=L)
1	VSS	0V Power Supply, Ground	
2	VDD	Positive Power Supply	
3	NC	No Connection (keep open)	
4	RS (CS)	Register Select RS=H, data read/write RS=L, instruction data write or Status busy flag read	Chip Select CS=H, chip enable CS=L, chip disable
5	R/W(SID)	Read Write Control R/W=H, data or status read R/W=L, data or status write	Serial Input Data
6	E(SCLK)	Enable Trigger	Serial Clock
7	DB0	Data bus Three state I/O terminal for display data or instruction	Leave open or pull-up
:	:		
14	DB7		
15	BLA	LED Backlight Positive Supply Power	
16	NC	No Connection (keep open)	
17	PSB	Interface Selection PSB=L, Serial Mode PSB=H, 4 or 8 bit Parallel Mode	
18	/RST	System Reset, low active	

## DISPLAY CHARACTERISTICS

Item	Value
LCD Display Mode	STN-Gray, Positive, Transmissive
Viewing Angle	6:00
Driving Method	1/32 duty, 1/5 bias
Backlight <sup>#</sup>	White LED backlight

## BLOCK DIAGRAM



## MECHANICAL DATA

Item	Value
Outline (mm)	80.8 x 35.0 x 12.5 MAX.
Viewing Area (mm)	64.6 x 16.0
Active Area (mm)	60.44 x 13.4
Dot Pitch (mm)	0.42 x 0.42
Dot Size (mm)	0.38 x 0.38

## ABSOLUTE MAXIMUM

Item	Symbol	Min	Max
Operating Voltage (V)	V <sub>DD</sub>	-0.3	+5.5
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>	4.8	5.0	5.2
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>	-	0.4
Operating Current (mA)	I <sub>DD</sub>	-	1.7	5.0

## BACKLIGHT CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Forward Voltage (V)	V <sub>fBLA</sub>	-	5.0	-
Forward Current (mA)	I <sub>fBLA</sub>	-	34	50

## LM3037 series

Item		Highlight		
		Char ROM	*Voltage	
LM3037A	STN-Gray	White LED	GB	3.3
LM3037A-1	STN-Blue	White LED	GB	3.3
LM3037B-0C-1	STN-Blue	White LED	TCH, SCH, JP	5.0
LM3037BDW*	STN-Gray	White LED	GB	5.0
LM3037BFW	STN-Blue	White LED	GB	5.0

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.