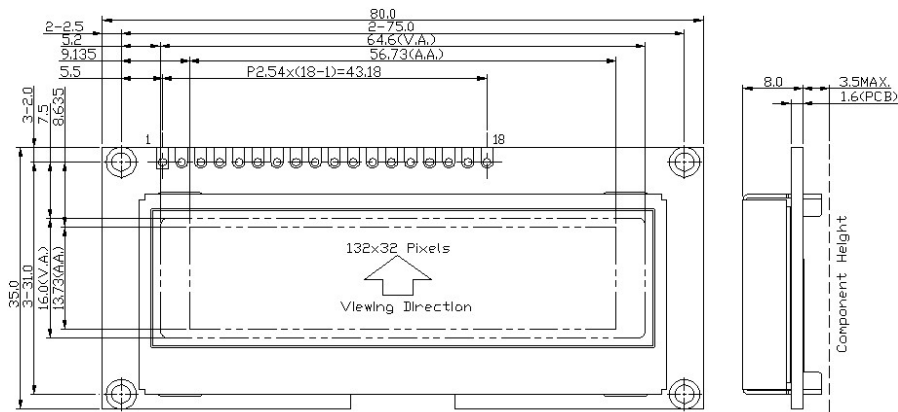


OUTLINE DRAWING



FEATURES

- 132x32 dots, COG type, cost effective,
- Low power consumption
- Mechanical size compatible with LMB162A Series character module
- 3.3V power supply, parallel interface

MECHANICAL DATA

Item	Value
Outline (mm)	80.0 x 35.0 x 11.5MAX.
Viewing Area (mm)	64.6 x 16.0
Active Area (mm)	56.73 x 13.73
Dot Pitch (mm)	0.43 x 0.43
Dot Size (mm)	0.4 x 0.4

TERMINAL FUNCTIONS

Pin	Name	Descriptions
1	VSS	Negative power supply, 0v
2	VDD	Positive Power Supply
3	NC	No Connection (Keep open)
4	A0	Register Select A0=H, Transferring the Display Data A0=L, Transferring the Control Data
5	R/W	Read write control RW=H; Data or status read RW=L; Data or command write
6	E	Enable trigger
7	DB0	8 bit bi-directional data bus
:	:	
14	DB7	
15	BLA	Positive power for LED backlight
16	/CS1	Chip Select /CS1=L, enable access to the LCD module /CS=H, disable access to the LCD module
17	P/S	Interface selection P/S=L; serial mode P/S=H; 8 bit parallel bus mode
18	/RES	Reset signal /RES= L, Reset the LCD module /RES= H, Normal running

DISPLAY CHARACTERISTICS

Item	Value
LCD Display Mode	STN, Negative, Transmissive
Viewing Angle	6:00
Driving Method	1/33 duty, 1/6 bias
Backlight	White LED backlight

ELECTRICAL CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Operating Voltage (V)	V _{DD}	2.9	3.3	3.4
Input High Voltage (V)	V _{IH}	0.8V _{DD}	-	V _{DD}
Input Low Voltage (V)	V _{IL}	0	-	0.2V _{DD}
Operating Current (mA)	I _{DD}	-	0.15	0.6

BACKLIGHT CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Forward Voltage (V)	V _{fBLA}	-	3.3	-
Forward Current (mA)	I _{fBLA}	-	52	85

MAJOR PRODUCT LIST

Models	Highlight	
	LCD Mode	Voltage
LM13232AFW★	STN-Blue	3.3V
LM13232ACW	FSTN	3.3V

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

★The above information is based on this model.

TEMPERATURE CHARACTERISTICS

Item	Symbol	Min	Max
Operating Temperature (°C)	T _{OP}	-20	+70
Storage Temperature (°C)	T _{ST}	-30	+80