

Full Graphics Type LCD Module 256x64

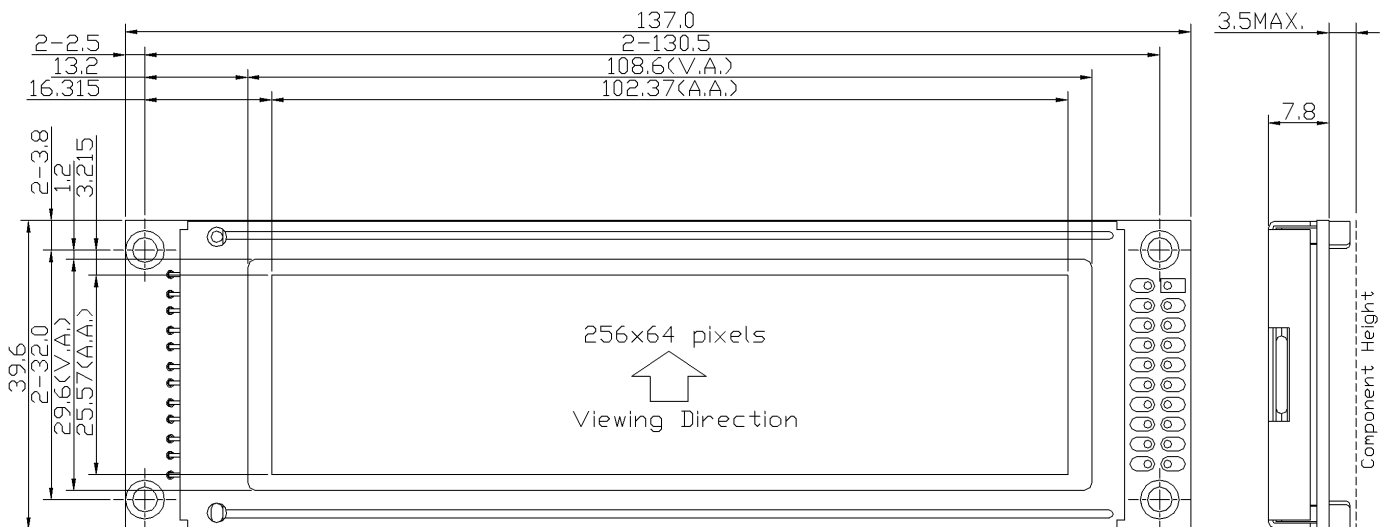
Model: LM6800



FEATURES

1. 256x64 dots
2. Parallel interface
3. DC/DC on board, 5v power supply
4. Ultra high contrast, White & Green LED backlight optional
5. Kinds of display model, TN-Gray, FSTN-Positive, FSTN-Negative optional
6. Specially designed for 1U case

OUTLINE DRAWING



TERMINAL FUNCTIONS

Pin	Name	Descriptions																								
1	VSS	0V Power Supply, Ground																								
2	VDD	Positive Power Supply																								
3	V0	LCD Contrast Reference																								
4	VOUT	Power Booster Output for V0																								
5	RS	Register Select RS=HIGH: Transferring Display Data RS=LOW: Transferring Instruction Data																								
6	R/	In Read Mode R/W = H Data read from the LCD Module while E = H and the device is being selected.																								
7	E	In Write Mode R/W = L Data write to the LCD Module, at E = H->L and device is being selected.																								
8	DB0	Data Bus																								
:	:	Three state I/O terminal for display data or instruction data																								
15	DB7																									
16	CSA	Chip Selection																								
17	CSB	Enable access to each section of the LCD module																								
18	CSC	<table><tr><th>CSC</th><th>CSB</th><th>CSA</th><th>Function</th></tr><tr><td>0</td><td>0</td><td>0</td><td>Enable access to the Left-Most Section (64 column) of the LCD module</td></tr><tr><td>0</td><td>0</td><td>1</td><td>Enable access to the Middle-Left Section (64 column) of the LCD module</td></tr><tr><td>0</td><td>1</td><td>0</td><td>Enable access to the Middle-Right Section (64 column) of the LCD module</td></tr><tr><td>0</td><td>1</td><td>1</td><td>Enable access to the Right-Most Section (64 column) of the LCD module</td></tr><tr><td>1</td><td>x</td><td></td><td>Disable all the access to LCD module</td></tr></table>	CSC	CSB	CSA	Function	0	0	0	Enable access to the Left-Most Section (64 column) of the LCD module	0	0	1	Enable access to the Middle-Left Section (64 column) of the LCD module	0	1	0	Enable access to the Middle-Right Section (64 column) of the LCD module	0	1	1	Enable access to the Right-Most Section (64 column) of the LCD module	1	x		Disable all the access to LCD module
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19	/RST	Reset Signal /RST=L, Reset /RST=H, Normal running																								
20	BLA	LED Backlight Positive Power Supply																								

DISPLAY CHARACTERISTICS

Item	Value
LCD Display Mode*	STN-Gray, Positive, Transmissive
Viewing Angle	6:00
Driving Method	1/64 duty, 1/9 bias
Backlight**	White LED Backlight

MECHANICAL DATA

Item	Value
Outline (mm)	137.0 x 39.6 x 11.3MAX
Viewing Area (mm)	108.6 x 29.6
Active Area (mm)	102.37 x 25.57
Dot Pitch (mm)	0.4 x 0.4
Dot Size (mm)	0.37 x 0.37

ABSOLUTE MAXIMUM

Item	Symbol	Min	Max
Operating Voltage (V)	V _{DD}	0	7.0
Operating Temperature (°C)	T _{OP}	-20	+70
Storage Temperature (°C)	T _{ST}	-30	80

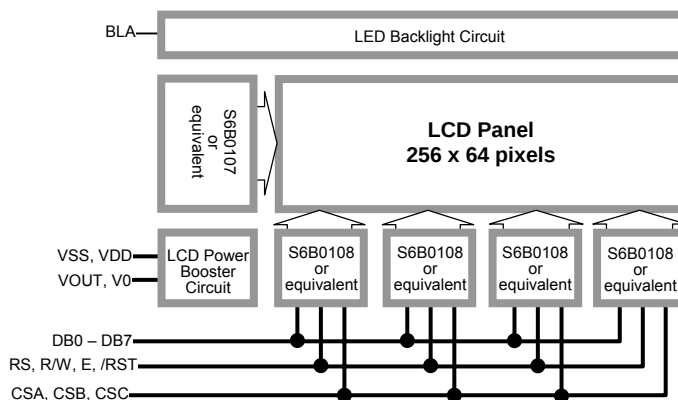
ELECTRICAL CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Operating Voltage (V)	V _{DD}	4.8	5.0	5.2
Input High Voltage (V)	V _{IH}	3.5	-	V _{DD}
Input Low Voltage (V)	V _{IL}	0	-	0.4
Operating Current (mA)	I _{DD}	-	6.0	18

BACKLIGHT CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Forward Voltage (V)	V _{fBLA}	-	5.0	-
Forward Current (mA)	I _{fBLA}	-	120	150

BLOCK DIAGRAM



LM6800 series

Major Models	Highlight	
	* LCD Mode	# Backlight
LM6800*	STN-Gray	White LED
LM6800-1	STN-Pos	White LED
LM6800-2	STN-Neg	White LED
LM6800-3	STN-Neg	Green LED

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.