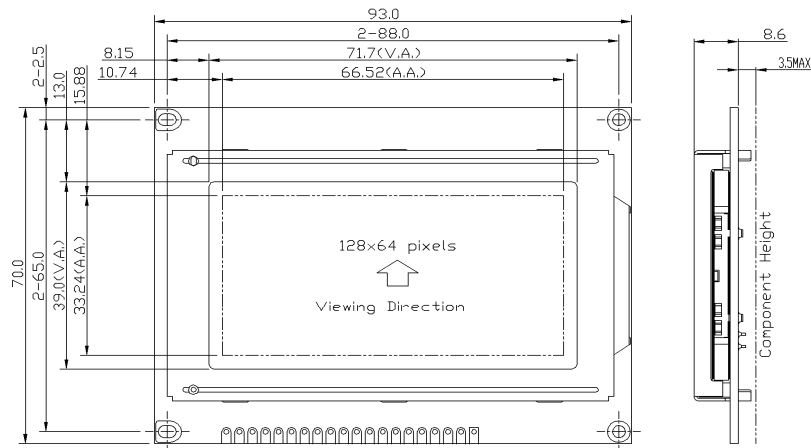


OUTLINE DRAWING



FEATURES

- 128x64 dots, Built-in Chinese Fonts
- Mechanical size compatible with standard
- 128 x 64 graphic LCM LM12864L Series
- Parallel or Serial interface optional
- 3.3v or 5v power supply optional
- STN-Gray or STN-Blue with White or YG LED backlight optional

MECHANICAL DATA

Item	Value
Outline (mm)	93.0 x 70.0 x 12.1MAX.
Viewing Area (mm)	71.7 x 39.0
Active Area (mm)	66.52 x 33.24
Dot Pitch (mm)	0.52 x 0.52
Dot Size (mm)	0.48 x 0.48

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	V0	LCD contrast reference supply	
4	RS (CS)	Register Select RS=H, data read or 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	Serial Input Data
6	E(SCLK)	Enable trigger	Serial Clock
7	DB0	Data bus	Leave open or pull-up
:	:	Three state I/O terminal for display data or instruction	
14	DB7		
15	PSB	Interface selection	
16	NC	No Connection (keep open)	
17	/RST	System reset, low active	
18	VOUT	LCD 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	STN, Positive, Transflective
Viewing Angle	6:00
Driving Method	1/33 duty, 1/5 bias
Backlight	White LED backlight

ELECTRICAL CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Operating Voltage (V)	V _{DD}	4.8	5.0	5.2
Input High Voltage (V)	V _{IH}	0.8V _{DD}	-	V _{DD}
Input Low Voltage (V)	V _{IL}	V _{SS}	-	0.4
Operating Current (mA)	I _{DD}	-	2.3	6.3

BACKLIGHT CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Forward Voltage (V)	V _{fBLA}	-	5.0	-
Forward Current (mA)	I _{fBLA}	-	80	100

MAJOR PRODUCT LIST

Models	Highlight		
	LCD Mode	Backlight	Voltage
LM3033DDW-0B-1★	STN-Gray	White	5.0V
LM3033DFW-0B-1	STN-Blue	White	5.0V
LM3033DBY-0B-1	STN-YG	YG	5.0V
LM3033CFW-0B-1	STN-Blue	White	3.3V
LM3033CDW-0B-1	STN-Gray	White	3.3V

TEMPERATURE CHARACTERISTICS

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

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.