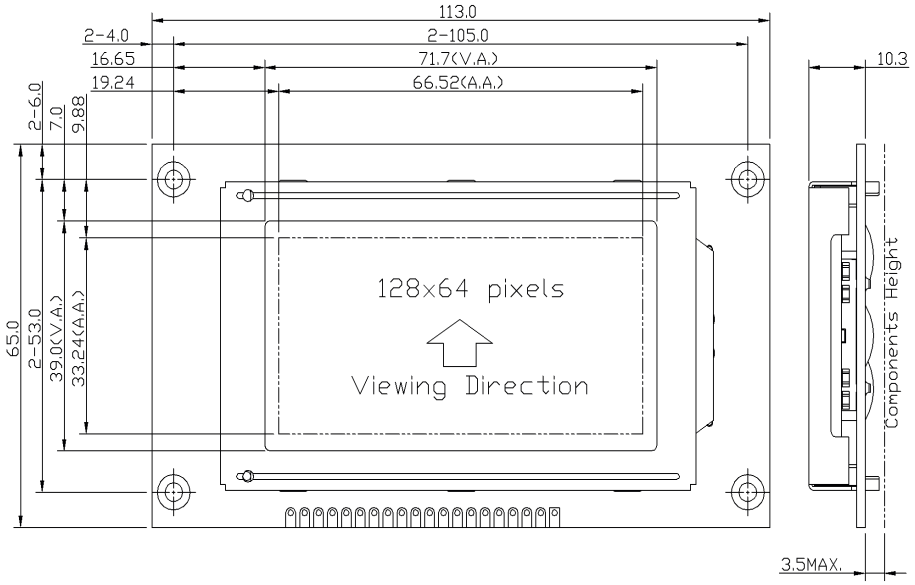
OUTLINE DRAWING



TERMINAL FUNCTIONS

Pin	Name	Descriptions
1	VSS	0V Power Supply, Ground
2	VDD	Positive Power Supply
3	V0	LCD Contrast Reference
4	RS	Register Select RS=H, Transferring Display Data RS=L, Transferring Instruction Data
5	R/W	In Read Mode, R/W = H; Data read from the LCD Module while E = H and the device is being selected. In Write Mode, R/W = L; Data write to the LCD Module, at E = H->L and device is being selected.
6	E	
7	DB0	8-bit Data Bus For display data or instruction data
:	:	
14	DB7	
15	CS1	Chip Selection CS1=1, enable access to the left side (64 column) of the LCD Module
16	CS2	Chip Selection CS2=1, enable access to the right side (64 column) of the LCD Module
17	/RST	Reset Signal /RST = L, Reset the LCD Module /RST = H, Normal running
18	VOUT	Power 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-Blue, Negative, Transmissive
Viewing Angle#	12:00
Driving Method	1/64 duty, 1/9 bias
Backlight	White LED Backlight

MECHANICAL DATA

Item	Value
Outline (mm)	113.0 x 65.0 x 13.8MAX
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

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

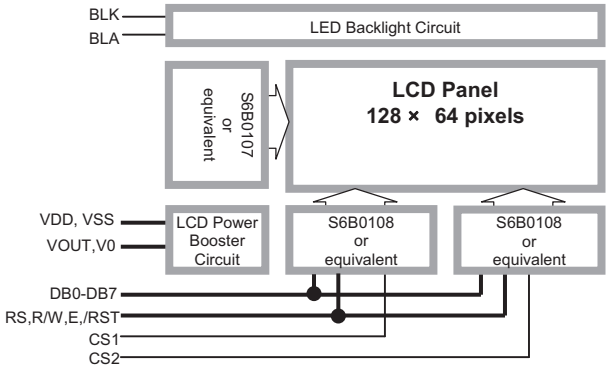
ELECTRICAL CHARACTERISTICS

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}	-	6.5	15.0

BACKLIGHT CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Forward Voltage (V)	Vf_A	-	5.0	-
Forward Current (mA)	If_A	-	75	90

BLOCK DIAGRAM



LM12864D series

	Highlight	
	*LCD Mode	#Viewing Angle
LM12864DDC-1	STN-Gray	6H
LM12864DFC-1*	STN-Blue	12H

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.

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