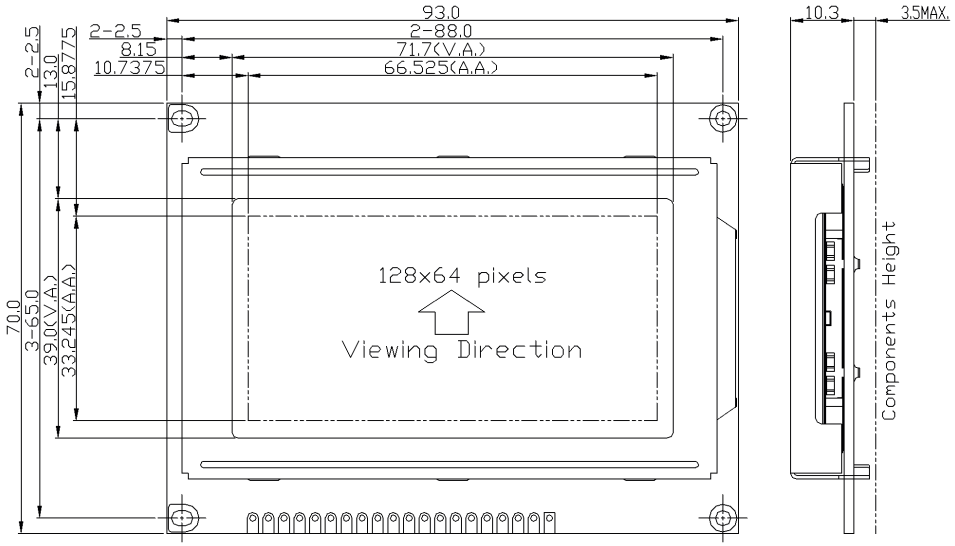
OUTLINE DRAWING



TERMINAL FUNCTIONS

Pin	Name	Descriptions
1	VSS	0V Power Supply, Ground
2	VDD	Positive Power Supply
3	V0	LCD Contrast Reference Supply
4	RS	Register Select RS=HIGH: Transferring Display Data RS=LOW: 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	Positive Power Supply for LED Backlight
20	BLK	Negative Power Supply for LED Backlight

DISPLAY CHARACTERISTICS

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

MECHANICAL DATA

Item	Value
Outline (mm)	93.0 x 70.0 x 13.8MAX
Viewing Area (mm)	71.7 x 39.0
Active Area (mm)	66.525 x 33.245
Dot Pitch (mm)	0.52 x 0.52
Dot Size (mm)	0.485 x 0.485

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

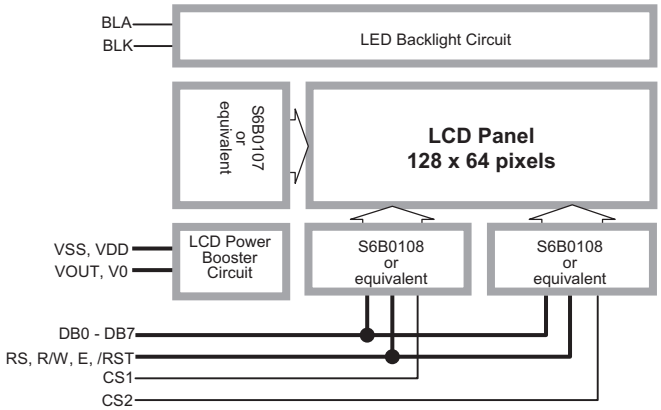
ELECTRICAL CHARACTERISTICS

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	-	4.9	-
Forward Current (mA)	If_A	-	80	120

BLOCK DIAGRAM



LM12864L series

	Highlight	
	*LCD Mode	#Backlight
LM12864LBY	STN-YG	YG LED
LM12864LCC	FSTN-Pos	White LED
LM12864LDW*	STN-Gray	White LED
LM12864LDY	STN-Gray	YG LED
LM12864LFW	STN-Blue	White 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.

TOPWAY
DISPLAYS EUROPA
Ribera de Elorrieta, 7C - 48015 - Bilbao - SPAIN
Tel. +34 94 474 52 52 - Fax +34 94 475 97 10
info@topwaydisplays.eu - www.topwaydisplays.eu