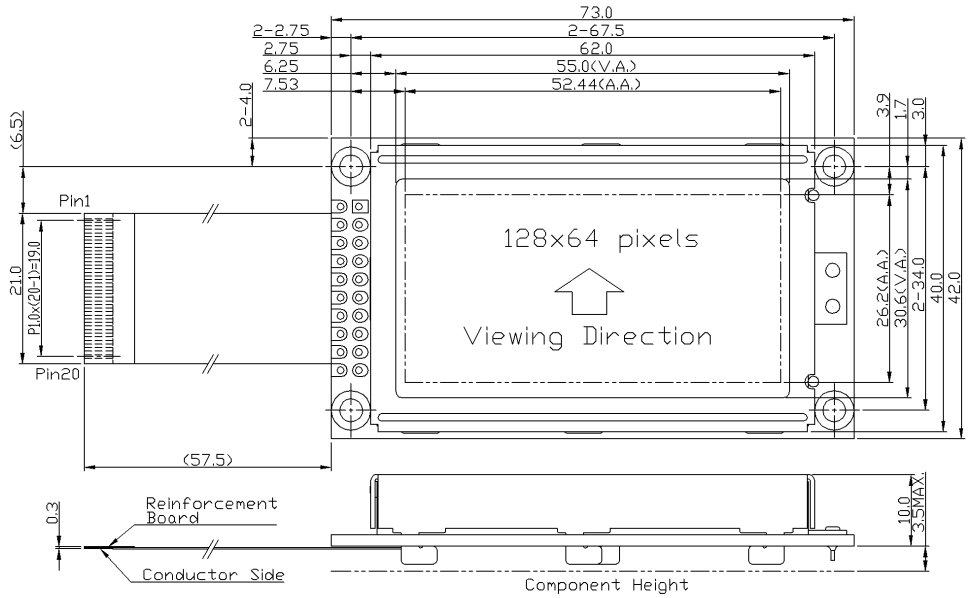
OUTLINE DRAWING



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-YG, Positive, Transflective
Viewing Angle	6:00
Driving Method	1/64 duty, 1/9 bias
Backlight	YG LED Backlight

MECHANICAL DATA

Item	Value
Outline (mm)	73.0 x 42.0 x 13.5MAX
Viewing Area (mm)	55.0 x 30.6
Active Area (mm)	52.44 x 26.2
Dot Pitch (mm)	0.41 x 0.41
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

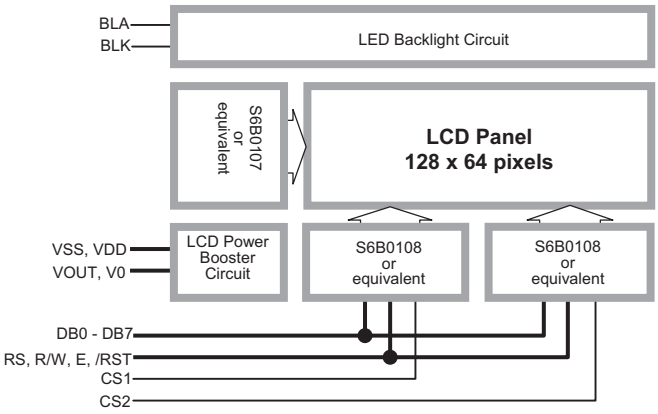
ELECTRICAL CHARACTERISTICS

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}	-	4.4	12.5

BACKLIGHT CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Forward Voltage (V)	Vf_{BLA}	-	5.0	-
Forward Current (mA)	If_{BLA}	-	165	240

BLOCK DIAGRAM



LM12864M series

	Highlight Terminal
LM12864MBC*	FFC
LM12864MBC-1	Through Hole (No FFC)

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