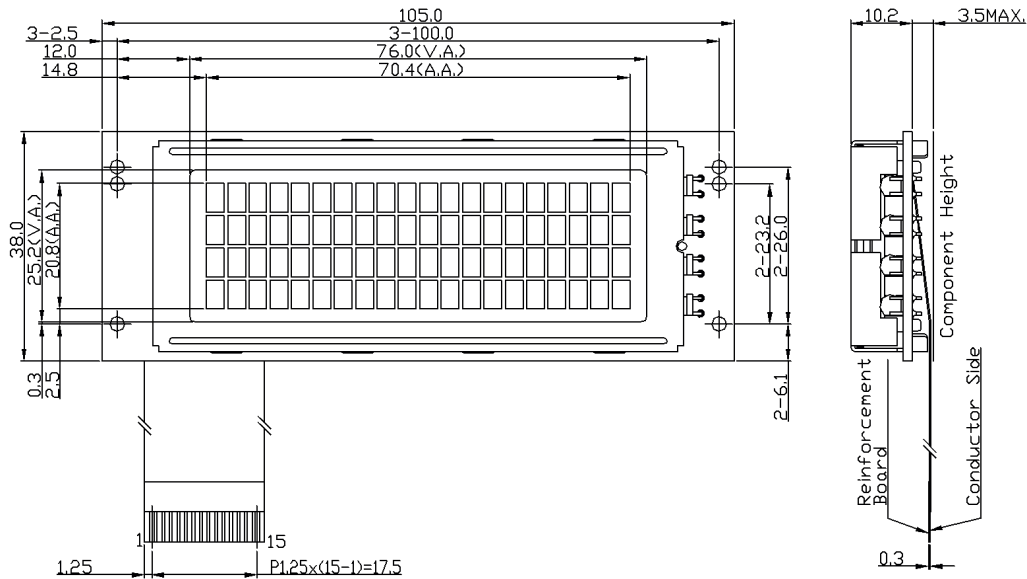


OUTLINE DRAWING



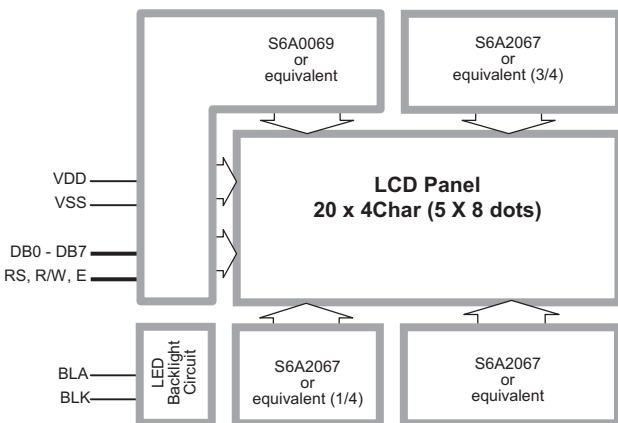
TERMINAL FUNCTIONS

Pin	Name	Descriptions
1	VSS	0V Power Supply, Ground
2	VDD	Positive Power Supply
3	RS	Register Select RS=HIGH: Transferring Display Data RS=LOW: Transferring Instruction Data
4	R/W	Read/Write Control Bus R/W=HIGH: Read Mode Selected R/W=LOW: Write Mode Selected
5	E	Data Enable
6	DB0	Bi-directional Tri-state Data Bus
:	:	
13	DB7	
14	BLA	LED Backlight Positive Power Supply
15	BLK	LED Backlight Negative Power Supply

DISPLAY CHARACTERISTICS

Item	Value
LCD Display Mode	STN-Gray, Positive, Transflective
Viewing Angle	6:00
Driving Method	1/16 duty, 1/5 bias
Backlight	White LED Backlight

BLOCK DIAGRAM



MECHANICAL DATA

Item	Value
Outline (mm)	105.0 x 38.0 x 13.7MAX
Viewing Area (mm)	76.0 x 25.2
Active Area (mm)	70.4 x 20.8
Character Pitch (mm)	0.6 x 0.6
Character Size (mm)	0.55 x 0.55

ABSOLUTE MAXIMUM

Item	Symbol	Min	Max
Operating Voltage (V)	V <sub>DD</sub>	0	5.0
Operating Temperature (°C)	T <sub>OP</sub>	-20	+70
Storage Temperature (°C)	T <sub>ST</sub>	-30	+80

ELECTRICAL CHARACTERISTICS\*

Item	Symbol	Min	Typ	Max
Operating Voltage (V)	V <sub>DD</sub>	3.0	3.3	3.6
Input High Voltage (V)	V <sub>IH</sub>	0.8 V <sub>DD</sub>	-	V <sub>DD</sub>
Input Low Voltage (V)	V <sub>IL</sub>	V <sub>SS</sub>	-	0.2 V <sub>SS</sub>
Operating Current (mA)	I <sub>DD</sub>	-	1.5	4.5

BACKLIGHT CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Forward Voltage (V)	V <sub>FBLA</sub>	-	3.3	-
Forward Current (mA)	I <sub>FBLA</sub>	-	44	70

LMB204C series

	Highlight	
	LCD Mode	Voltage
LMB204CDC*	STN-Gray	3.3V
LMB204CDC-2	STN-Gray	5.0V
LMB204CFC	STN-Blue	3.3V
LMB204CFC-1	STN-Blue	5.0V

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.