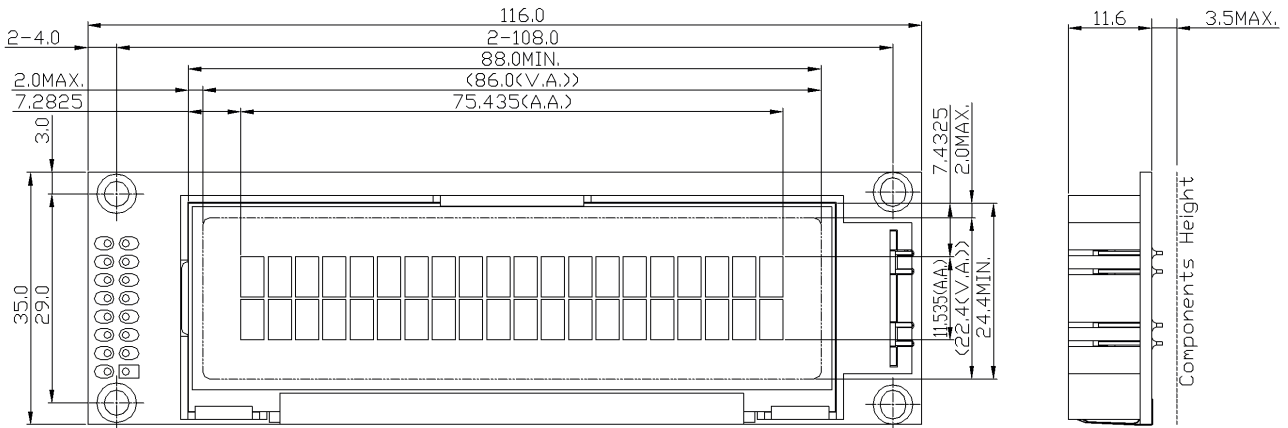


OUTLINE DRAWING



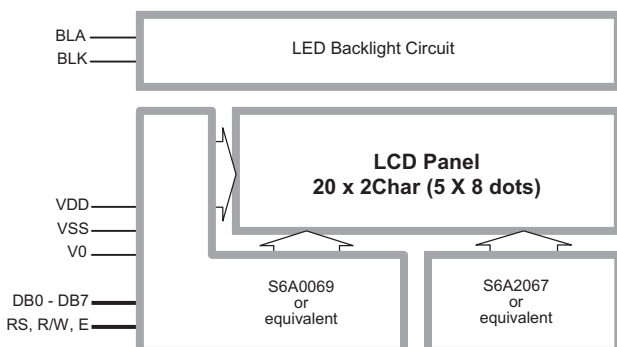
TERMINAL FUNCTIONS

Pin	Name	Descriptions
1	BLA	LED Backlight Positive Power Supply
2	BLK	LED Backlight Negative Power Supply
3	VSS	0V Power Supply, Ground
4	VDD	Positive Power Supply
5	V0	LCD Contrast Reference Supply
6	RS	Register Select RS=HIGH: Transferring Display Data RS=LOW: Transferring Instruction Data
7	R/W	Read/Write Control Bus R/W=HIGH: Read Mode Selected R/W=LOW: Write Mode Selected
8	E	Data Enable
9	DB0	Bi-directional Tri-state Data Bus
:	:	
16	DB7	

DISPLAY CHARACTERISTICS

Item	Value
LCD Display Mode*	FSTN, 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)	116.0 x 35.0 x 15.1MAX
Viewing Area (mm)	86.0 x 22.4
Active Area (mm)	75.435 x 11.535
Character Pitch (mm)	0.65 x 0.7
Character Size (mm)	0.635 x 0.685

ABSOLUTE MAXIMUM

Item	Symbol	Min	Max
Operating Voltage (V)	V _{DD}	0	6.0
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}	4.7	5.0	5.3
Input High Voltage (V)	V _{IH}	0.8 V _{DD}	-	V _{DD}
Input Low Voltage (V)	V _{IL} V _{SS}	-	-	0.5
Operating Current (mA)	I _{DD}	-	1.3	3.0

BACKLIGHT CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Forward Voltage (V)	V _{fBLA}	-	5.0	-
Forward Current (mA)	I _{fBLA}	-	24	36

LMB202E series

	Highlight		
	LCD Mode	Voltage	Backlight
LMB202ECC*	FSTN-Pos	5.0V	White LED
LMB202ECC-2	FSTN-Pos	3.3V	White LED
LMB202EGC-2	FSTN-Neg	5.0V	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.