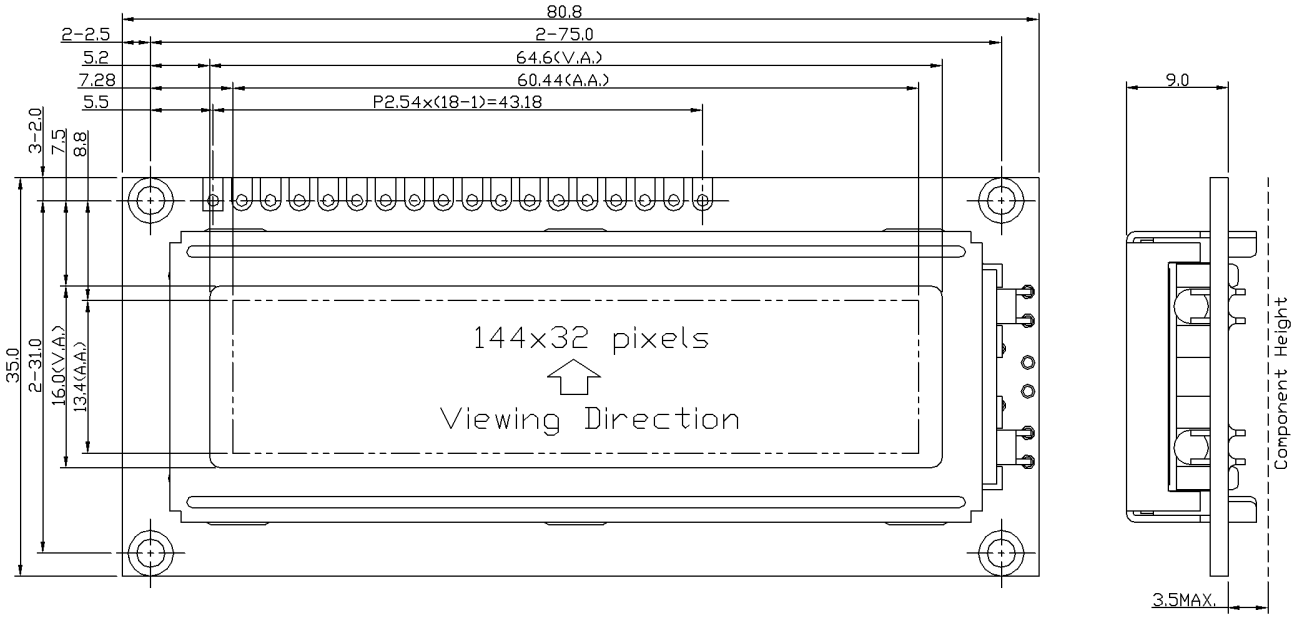
OUTLINE DRAWING



MECHANICAL DATA

Item	Value
Outline (mm)	80.8 x 35.0 x 12.5 MAX.
Viewing Area (mm)	64.6 x 16.0
Active Area (mm)	60.44 x 13.4
Dot Pitch (mm)	0.42 x 0.42
Dot Size (mm)	0.38 x 0.38

DISPLAY CHARACTERISTICS

Item	Value
LCD Display Mode	STN-Gray, Positive, Transmissive
Viewing Angle	6:00
Driving Method	1/33 duty, 1/5 bias
Backlight	White LED backlight

ABSOLUTE MAXIMUM

Item	Symbol	Min	Max
Operating Voltage (V)	V_{DD}	-0.3	+5.5
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}	$0.8V_{DD}$	-	V_{DD}
Input Low Voltage (V)	V_{IL}	V_{SS}	-	0.4
Operating Current (mA)	I_{DD}	-	1.3	3.5

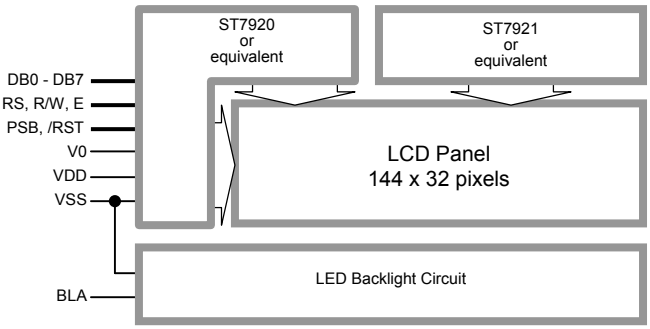
BACKLIGHT CHARACTERISTICS

Item	Symbol	Min	Typ	Max
Forward Voltage (V)	Vf_{BLA}	-	5.0	-
Forward Current (mA)	If_{BLA}	-	40	50

TERMINAL FUNCTIONS

Pin	Name	Descriptions	
		Parallel Mode (PSB=H)	Serial Mode (PSB=L)
1	VSS	Negative Power Supply, Ground (0V)	
2	VDD	Positive Power Supply	
3	V0	Power Supply for LCD Driving	
4	RS(CS)	Register Select RS=H, data read/write RS=L, Instruction read/write	Chip Select CS=H, chip enable CS=L, chip disable
5	R/W(SID)	Read Write Control	Serial Input Data
6	E(SCLK)	Enable Trigger	Serial Clock
7	DB0	Data bus Three state I/O terminal for display data or instruction	Leave open or pull-up
:	:		
14	DB7		
15	BLA	Positive Supply for LED backlight	
16	NC	No Connection (keep open)	
17	PSB	Interface Selection PSB=L, Serial Mode PSB=H, 4 or 8 bit Parallel Mode	
18	/RST	System Reset, low active	

BLOCK DIAGRAM



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