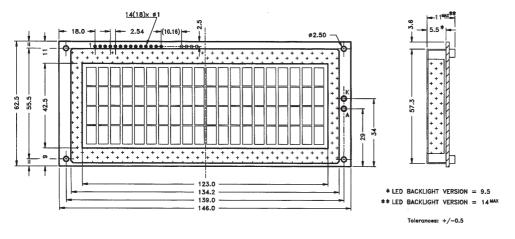
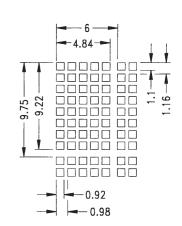


BT 42008

4 Lines x 20 Characters





Dimensions [mm] Dot Size

■ MECHANICAL DATA

Parameter Width x Height x Depth		Unit
Outline Dimensions	146 x 62.5 x 10 (with LED: 13.5)	mm
Effective viewing area	123.0 x 42.5	mm
Dot Size	0.92 x 1.10	mm
Dot Pitch	0.98 x 1.16	mm
Character Matrix	5 x 7	dots
Character Size	4.84 x 8.06	mm
Character Pitch	6.0 x 9.75	mm
Weight	Approximate 100 (with LED: 120)	g

■ ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Min.	Max.	Unit
Supply Voltage (Logic)	$V_{DD} (V_{DD} - V_{SS})$	0	7.0	V
Supply Voltage (LCD Driver)	$V_{EE} (V_{DD} - V_0)$	0	13.5*	V
Input Voltage	V_{\parallel}	V_{SS}	v_{DD}	V
Operating Temperature	T _{OP}	See Pag	je 11	°C
Storage Temperature	T _{ST}	See Pag	je 11	°C

^{*} AV-Types See Page 13

■ ELECTRICAL CHARACTERISTICS

Condition: Ta = 25°C, V_{DD} = 5.0 $^{\pm}$ 0.25 V					
Parameter	Symbol	Min.	Тур	Max.	Unit
Input Voltage HIGH	V _{INH}	2.2			V
Input Voltage LOW	V_{INL}			0.6	V
Output Voltage HIGH	v_{OH}	2.4			V
Output Voltage LOW	V_{OL}			0.4	V
Supply Current (Logic)	I_{DD}		1.5		mA
Supply Current (LCD Driver)	I ₀		0.5		mA
Duty Ratio			1 / 16		

■ LED BACKLIGHT (STANDARD COLOR GREEN)

Parameter	Symbol	Min.	Тур	Max.	Unit
Supply Voltage	٧ _F	3.8	4.0	4.2	٧
Supply Current	I _F [at 25°C]		540	810	mA
Lamp Style			04		
LED Segments			54		pcs

■ PIN TABLE

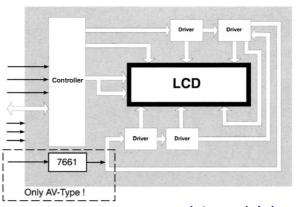
—					
Pin	Symbol	Signal Description			
1	V_{SS}	GND (0 V)			
2	V_{DD}	Power Supply (5 V)			
3	V ₀ *	Supply Voltage (LCD Driver)			
4	RS	Register Select - LOW = Instruction, High = Data			
5	R/\overline{W}	Read / Write LOW = MPU to LCM, HIGH = LCM to MPU			
6	E	Enable R / \overline{W} = LOW: Data are taking over at falling edge of E R / \overline{W} = HIGH: Data can be read at E = 1			
7 to 14	DB ₀ to DB ₇	Data Bus - Software selectable 4 or 8 Bit Mode			
15	NC	Not Connected	Only AV-Type		
16	NC	Not Connected	Only AV-Type		
17	VEE*	Negative Voltage Output	Only AV-Type		
18	NC	Not Connected	Only AV-Type		
A	+V _{LED}	Anode of LED Unit			
K	-V _{LED}	Cathode of LED Unit			
	* AV Type: do not connect				

^{*}AV-Type: do not connect

■ ADDITIONAL INFORMATION

- ◆ Display Connector Type without LED: 1 x 14 pin
- Display Connector Type with LED: See Drawing
- ◆ Controller Type SPLC 780 (1) or compatible

■ BLOCK DIAGRAM



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