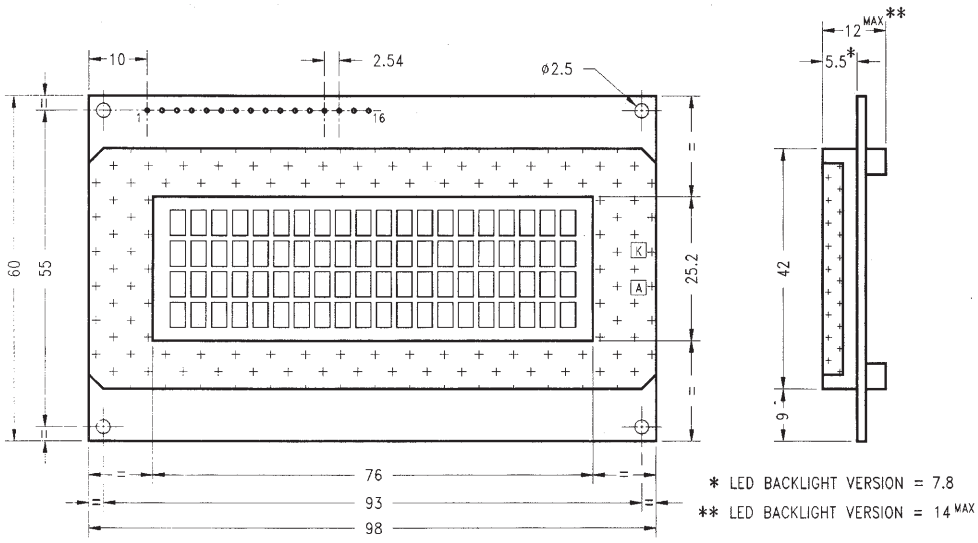
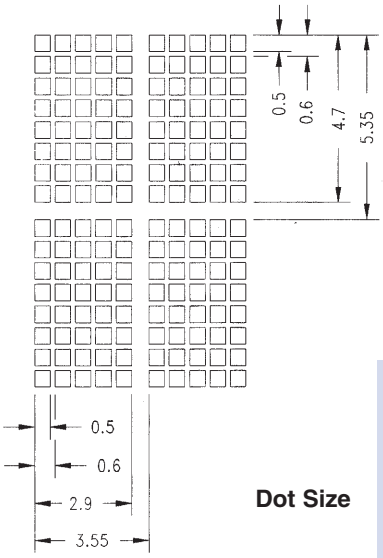
BT 42005

4 Lines x 20 Characters



Dimensions [mm]



Dot Size

Character LCD Modules

■ MECHANICAL DATA

Parameter	Width x Height x Depth	Unit
Outline Dimensions	98 x 60 x 11 (with LED: 13)	mm
Effective viewing area	76 x 25.2	mm
Dot Size	54 x 5.5	mm
Dot Pitch	54.05 x 5.55	mm
Character Matrix	5 x 7	dots
Character Size	2.95 x 4.10	mm
Character Pitch	3.60 x 5.40	mm
Weight	Approximate 61 (with LED. 73)	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_I	V_{SS}	V_{DD}	V
Operating Temperature	T_{OP}	See Page 11		°C
Storage Temperature	T_{ST}	See Page 11		°C

■ ELECTRICAL CHARACTERISTICS

Condition: Ta = 25°C, V_{DD} = 5.0$^{\pm 0.25}$ V

Parameter	Symbol	Min.	Typ	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}	---	1.0	---	mA
Supply Current (LCD Driver)	I_0	---	0.5	---	mA
Duty Ratio	---	---	1 / 16	---	---

■ LED BACKLIGHT (STANDARD COLOR GREEN)

Parameter	Symbol	Min.	Typ	Max.	Unit
Supply Voltage	V_F	3.8	4.1	4.4	V
Supply Current	I_F[at 25°C]	---	240	360	mA
Lamp Style	---	---	04	---	---
LED Segments	---	---	24	---	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	+V_{LED}	Anode of LED Unit
16	-V_{LED}	Cathode of LED Unit

■ ADDITIONAL INFORMATION

- Display Connector Type - SL-1-14-00 / 90
- Controller Type - SPLC 780 (1) or compatible

■ BLOCK DIAGRAM