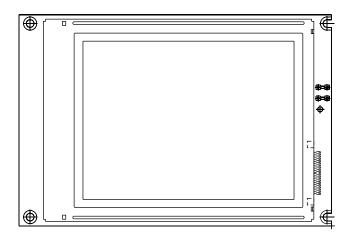


320 x 240 Graphic LCD



FEATURES

• Type: Graphic

Display format: 320 x 240 dotsBuilt-in controller: Epson S1D13700

Duty cycle: 1/240Built-in N.V.

· Touch screen option

• Temperature compensation option

• Same size with LCD-320H240D

• Compliant to RoHS directive 2002/95/EC



MECHANICAL DATA				
ITEM	TEM STANDARD VALUE			
Module Dimension	142.0 x 96.0			
Viewing Area	104.0 x 79.3			
Dot Size	0.27 x 0.27	mm		
Dot Pitch	0.30 x 0.30	mm		
Mounting Hole	135.0 x 92.0			
Character Size	N/a			

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN	LIMIT			
IIEWI	STINIBUL	MIN.	TYP.	MAX.	UNIT	
Power Supply	V_{DD} to V_{SS}	4.75	5.0	5.5	V	
Input Voltage	VI	- 0.3	-	V_{DD}	V	

Note

• $V_{SS} = 0 \text{ V}, V_{DD} = 5.0 \text{ V}$

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT	
ITEM	STWIBOL		MIN.	TYP.	MAX.	OINIT	
Input Voltage	V_{DD}	-	-	5.0	5.5	V	
Supply Current	I _{DD}	$V_{DD} = +5.0 \text{ V}$	45.0	55.0	65.0	mA	
Recommended LC Driving Voltage for Normal Temperature Version Module		- 20 °C	-	-	26.1		
	V ₀ to V _{SS}	25 °C	-	23.8	-	V	
		70 °C	20.9	-	-		
CCFL Starting Voltage	V _{FLS}	25 °C	-	600	-	V _{RMS}	
CCFL Driving Voltage	V _{FLD}	25 °C	-	268	-	V _{RMS}	
CCFL Driving Current	I _{FLD}	$V_{FQ} = 450 V_{RMS}$, 30 kHz	-	5.0	-	mA _{RMS}	
LED Forward Voltage	V _F	25 °C	-	5.0	5.5	V	
LED Forward Current	I _F	25 °C	-	80.0	-	mA	
EL Power Supply Current	I _{EF}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	mA	

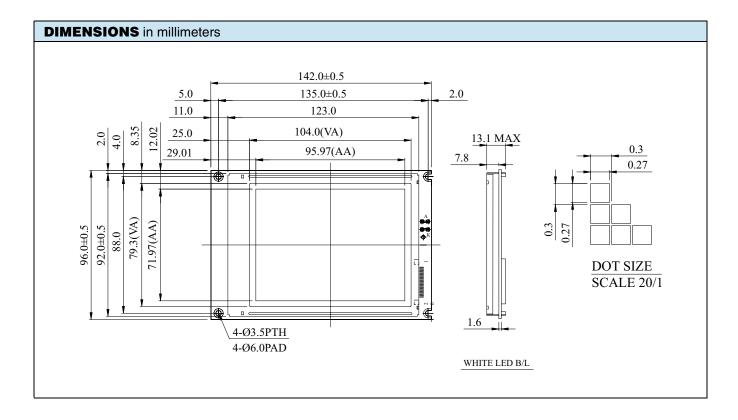
OPTION	OPTIONS								
	PROCESS COLOR					BACKLIGHT			
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL
	х	х	х	х		х	х		Х

For detailed information, please see the "Product Numbering System" document.

320 x 240 Graphic LCD



INTERFACE PIN FUNCTION						
PIN NO.	SYMBOL	FUNCTION				
1	V _{SS}	Ground				
2	V _{DD}	Power supply for logic				
3	V ₀	Driving voltage for LCD				
4	A ₀	RD = L, WR = H; AO = L: Data read; AO = H: Status read RD = H, WR = L; AO = L: Data write; AO = H: Command write				
5	WR	8080 family: Write signal/6800 family: R/W signal				
6	RD	8080 family: Read signal/6800 family: Enable clock				
7	DB0	Date bus line				
8	DB1	Date bus line				
9	DB2	Date bus line				
10	DB3	Date bus line				
11	DB4	Date bus line				
12	DB5	Date bus line				
13	DB6	Date bus line				
14	DB7	Date bus line				
15	CS	Chip select, active L				
16	RES	Controller reset signal, active L				
17	V _{EE}	Negative voltage output				
18	SEL1	H: 68/L: 80				
19	BUSY	Check busy				
20	A	+ 5 V for LED				





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Document Number: 91000 Revision: 18-Jul-08

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