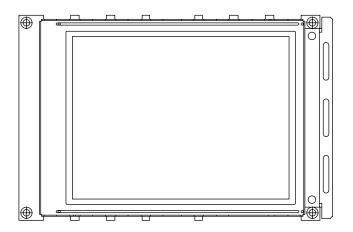


LCD-320H240BX, LCD-320H240BP2, LCD-320H240BP3

Vishay

320 x 240 Graphic LCD



FEATURES

• Type: Graphic

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

Duty cycle: 1/240Touch screen option

• Temperature compensation option

BP2: DIP connectionBP3: Touch panel driver

• Compliant to RoHS directive 2002/95/EC



MECHANICAL DATA				
ITEM	STANDARD VALUE	UNIT		
Module Dimension	166.8 x 109.0			
Viewing Area	122.0 x 92.0			
Dot Size	0.34 x 0.34	ma ma		
Dot Pitch	0.36 x 0.36	mm		
Mounting Hole	152.0 x 101.0			
Character Size	N/a			

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN	UNIT			
I I E IVI	STWIDOL	MIN.	TYP.	MAX.	UNIT	
Power Supply	V_{DD} to V_{SS}	4.5	5.0	5.5	V	
Input Voltage	V_{I}	0	-	V_{DD}] v	

Note

• V_{SS} = 0 V, V_{DD} = 5.0 V

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL CONDITION	CONDITION	STANDARD VALUE				
IIEW		CONDITION	MIN.	TYP.	MAX.	UNIT	
Input Voltage	V _{DD}	-	4.75	5.0	5.25	V	
Supply Current	I _{DD}	V _{DD} = + 5.0 V	65.0	75.0	85.0	mA	
Recommended LC Driving Voltage for Normal Temperature Version Module		- 20 °C	=	-	26.1	V	
	V ₀ to V _{SS}	25 °C	=	23.8	-		
		70 °C	22.2	-	-		
CCFL Starting Voltage	V_{FLS}	25 °C	=	600	-	V_{RMS}	
CCFL Driving Voltage	V _{FLD}	25 °C	=	270	-	V _{RMS}	
CCFL Driving Current	I _{FLD}	$V_{FQ} = 450 V_{RMS}$, 30 kHz	4.8	5.3	5.5	mA _{RMS}	
LED Forward Voltage	V _F	25 °C	3.4	3.5	3.6	V	
LED Forward Current	I _F	25 °C	140	160	180	mA	
EL Power Supply Current	I _{EF}	V _{EL} = 110 V _{AC} , 400 Hz	=	-	5.0	mA	

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

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

Document Number: 37386 Revision: 20-Apr-09

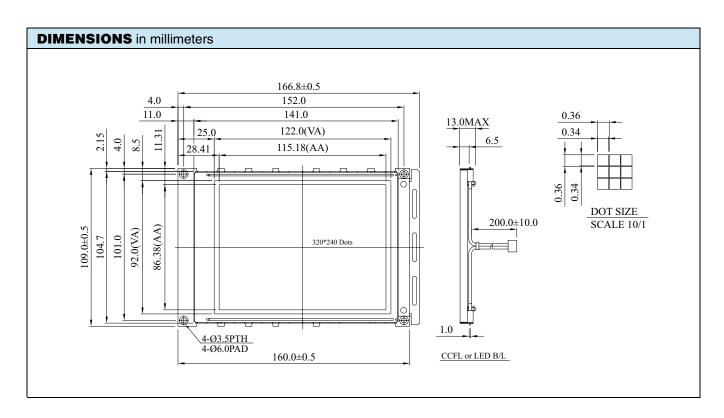
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INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	V _{SS}	Ground			
2	V_{DD}	Power supply for logic			
3	V ₀	Driving voltage for LCD			
4	A ₀	RD = L, WR = H; AO = L: Data read; AO = H: Status read RD = H, WR = L; AO = L: Data write; AO = H: 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	SEL	8088 or 6800 interface selection (1:68, 0:80)			
19	F _{GND}	Frame ground			
20	WAIT	Check busy			





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