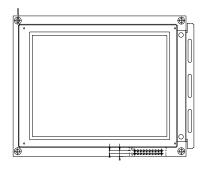




320 x 24 Dots Graphic LCD



MECHANICAL DATA STANDARD VALUE ITEM UNIT Module Dimension 148.0 x 120.24 mm 120.14 x 92.14 Viewing Area mm Dot Size 0.34 x 0.34 mm Dot Pitch 0.36 x 0.36 mm

FEATURES

- · Built-in SED 1335 controller and SRAM
- Built-in negative voltage generator
- 1/240 duty cycle
- Touch screen option (analog type)
- · Temperature compensation option

ABSOLUTE MAXIMUM RATING							
ITEM	SYMBOL	STAN	UNIT				
		MIN.	TYP.	MAX.			
Power Supply	VDD-VSS	4.75	5.0	5.25	V		
Input Voltage	VI	- 0.3	_	VDD	V		

NOTE: VSS = 0 Volt, VDD = 5.0 Volt

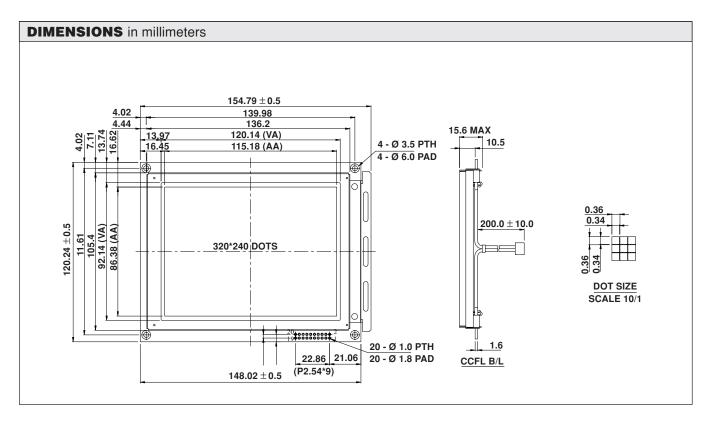
ELECTRICAL SPECIFICATIONS							
ITEM	SYMBOL	CONDITION	STANDARD VALUE		UNIT		
			MIN.	TYP.	MAX.		
Input Voltage	VDD	L level	0.7V _{DD}	_	V _{DD}	V	
	VIO	H level	0	_	0.3V _{DD}	V	
Supply Current	IDD	VDD = 5V	_	100	105	mA	
Recommended LC Driving		0°C	22.0	23.0	24.0		
Voltage for Normal Temp.	VDD - V0	25°C	21.3	22.2	23.0	V	
Version Module		50°C	19.5	20.8	22.1		
CCFL Starting Voltage	VFLS	25°C	_	600	_	Vrms	
CCFL Driving Voltage	VFLD	25°C	_	268	_	Vrms	
CCFL Driving Current	IFLD	VFQ = 450Vrms 30KHz	_	5.0	-	mArms	
LED Forward Voltage	VF	25°C	_	4.2	4.6	V	
LED Forward Current	IF	25°C	_	180	360	mA	
EL	IEL	Vel = 110VAC; 400Hz	_	_	5.0	mA	

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320 x 240 Dots Graphic LCD



PIN NUMBER	SYMBOL	FUNCTION	
1	Vss	Ground	
2	Vdd	Power Supply for Logic	
3	Vo	Driving Voltage for LCD	
4	RD	8080 Family: Read Signal, 6800 Family: Enable Clock	
5	WR	8080 Family: Write Signal, 6800 Family: R/W Signal	
6	Ao	Data Select Type RD = L WR = H, A0 = L: Data Read AO = H: Status Read RD = H WR = L, A0 = L: Data Read AO = H: Command Write For 80 Family R/W = L A0 = H: Command Write A0 = L: Data Write R/W = H A0 = H: Status Read AO = L: Data Read For 68 Family	
7	DB0	Data Bus Line	
8	DB1	Data Bus Line	
9	DB2	Data Bus Line	
10	DB3	Data Bus Line	
11	DB4	Data Bus Line	
12	DB5	Data Bus Line	
13	DB6	Data Bus Line	
14	DB7	Data Bus Line	
15	CS	Chip Select, Active L	
16	RES	Controller Rest Signal Active L	
17	Vee	Negative Voltage Output (Optional)	
18	FGND	Frame Ground	
19	NC	No Connection	
20	NC	No Connection	



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