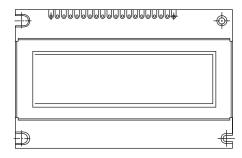




160 x 32 Dots Graphic LCD



FEATURES

- · Available for external oscilation 2KHz
- Epson-SED 1520, or equivalent
- 1/32 duty cycle
- N.V. optional for + 3V power supply

MECHANICAL I	MECHANICAL DATA						
ITEM	STANDARD VALUE	UNIT					
Module Dimension	85.2 x 55.0	mm					
Viewing Area	72.0 x 22.0	mm					
Mounting Hole	80.2 x 46.7	mm					
Dot Pitch	0.44 x 0.61	mm					

ABSOLUTE MAXIMUM RATING					
ITEM	SYMBOL	STAN	UNIT		
		MIN.	TYP.	MAX.	
Power Supply	VDD-VSS	4.75	5.0	5.52	V
Input Voltage	VI	- 0.3	_	VDD	V

NOTE: VSS = 0 Volt, VDD = 5.0 Volt

ELECTRICAL SPECIFICATIONS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE		IE	UNIT
			MIN.	TYP.	MAX.	
Input Voltage	VDD	VDD = + 5V	4.5	5.0	5.5	V
Supply Current	IDD	VDD = 5V	-	1.0	1.4	mA
Recommended LC Driving		- 2	5.8	6.0	6.2	
Voltage for Normal Temp.	VDD-V0	25°C	5.3	5.5	5.7	V
Version Module		+ 7	4.8	5.0	5.2	
LED Forward Voltage	VF	25°C	_	4.2	4.6	V
LED Forward Current	IF	25°C	-	180	360	mA
EL Power Supply Current	IEL	Vel = 110VAC; 400Hz	_	_	5.0	mA

Document Number: 37278 Revision 01-Oct-02

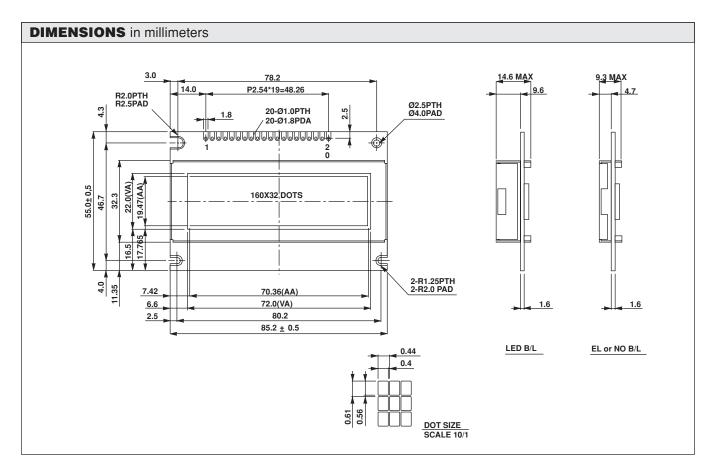
LCD-160G032A

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160 x 32 Dots Graphic LCD



PIN NUMBER	SYMBOL	FUNCTION	
1	Vss	GND	
2	Vdd	(+ 5V)	
3	Vo	Contrast Adjustment	
4	Ao	H →Data L →Instruction	
5	CS1	CS1 = 0, CS2 = 0 Select U1	
6	CS2	CS1 = 1, CS2 = 0 Select U2 CS1 = 0, CS2 = 1 Select U3	
7	CL	External Clock 2KHz	
8	E	Enable Signal	
9	R/W	H: Read Data L: Write Data	
10	DB0	Data Bus Line	
11	DB1	Data Bus Line	
12	DB2	Data Bus Line	
13	DB3	Data Bus Line	
14	DB4	Data Bus Line	
15	DB5	Data Bus Line	
16	DB6	Data Bus Line	
17	DB7	Data Bus Line	
18	RES	H →L Reset the LCM	
19	A	Power Supply forLED B/L (+ 4.2V)	
20	К	Power Supply forLED B/L (0V)	





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Revision: 18-Jul-08

Document Number: 91000 www.vishay.com