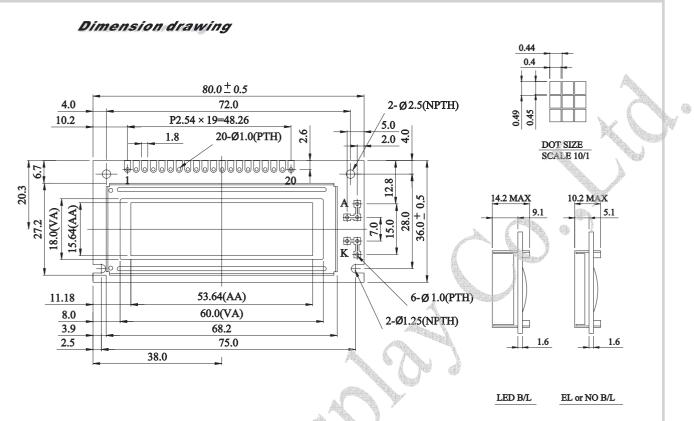
WG12232E/J Graphic122x32dots



Feature

- 1. Available forExternal (E type), internal (J type) oscilation 2KHz
- 2. Epson-SED 1520,or equivalent
- 3.1/32 duty cycle
- 4. N.V. optional for +3V power supply

Pin	Symbol	Function			
<u>NO.</u>	Vss	GND			
2	Vdd	Power supply for logic			
3	Vo	Contrast Adjustment			
4	Ao	H→Data L→Instruction			
5	CS1	L→Chip1 Enable			
6	CS2	L→Chip2 Enable			
7	CL/NV	E type:External clock 2KHz J type:Negative Voltage Option			
8	E/NC	E type:Enable Signal J type:No connection			
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 li		Data bus line			
16	Data bus line				
17	Data bus line				
18	18 RES H→L Reset the LCM				
19	A/Vee	+4.2V for LED/Negative Voltage output			
20	К	Power supply for B/L			

Mechanical Data

 1 I		
ltem	Standard Value	Unit
Module Dimension	80.0×36.0	mm
Viewing Area	60.0x18.0	mm
Mounting hole	75.0x28.0	mm
Dot Pitch	0.44x0.49	mm

Absolute Maximum Rating

ltem	Symbol	Stan	11		
nem		min.	typ.	max.	Unit
Power Supply	VDD-VSS	4.75	5	5.25	V
Input Voltage	VI	0		VDD	V

Note : VSS=0 Volt, VDD=5.0 Volt.

Electronical Characteristics

Item	Cumhal	Condition	Standard Value			
nem	Symbol	Condition	min.	typ.	max.	Unit
Input Voltage	VDD	VDD=+5V	4.5	5.0	5.5	V
Supply Current	IDD	VDD=5V		1.0	1.4	mA
		-20°C	4.9	5.0	5.1	
Recommended LC Driving		0°C	4.7	4.8	4.9	
Voltage for Normal Temp.	VDD-V0	25°C	4.6	4.7	4.8	V
Version module	100 100	50°C	4.3	4.4	4.7	
		70°C	4.1	4.2	4.5	
LED Forward Voltage	VF	25 ° C		4.2	4.6	V
LED Forward Current	IF	25°C		120	240	mA
EL Power Supply Current	IEL	Vel=110VAC;400Hz			5.0	mA

type

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