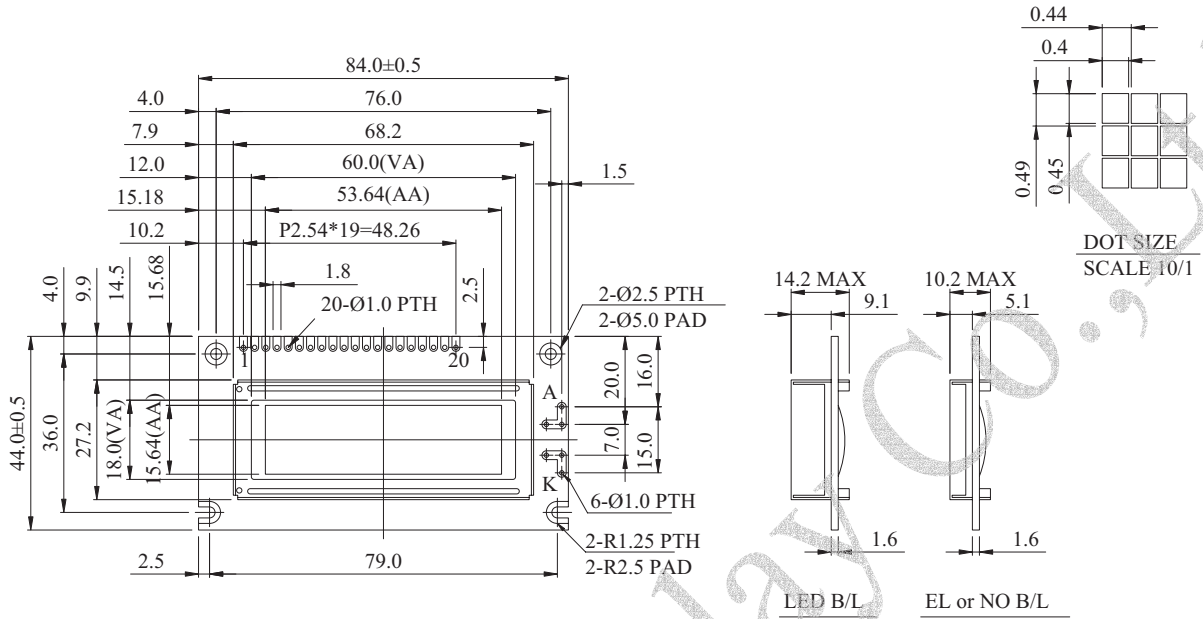


WG12232L Graphic 122x32 dots

Dimension drawing



Graphic type

Feature

1. Built-in controller (ST7920)
2. 1/32 duty cycle
3. Chinese version
4. Same size with WG12232A

Mechanical Data

Item	Standard Value	Unit
Module Dimension	84.0x44.0	mm
Viewing Area	60.0x18.0	mm
Dot Size	0.4x0.45	mm
Dot Pitch	0.44x0.49	mm

Pin NO.	Symbol	Function
1	Vss	Ground
2	Vdd	Supply voltage for logic
3	Vo	Operating voltage for LCD
4	RS	H/L register select signal
5	Vout	Voltage output
6	NC	NC
7	NC	NC
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	L: reset the LCM
19	A	Power supply for
20	K	Power supply for B/L(-)

Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	0	---	7.0	V
Input Voltage	VI	0	---	VDD	V

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

Electrical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	VDD	---	4.5	5.0	5.5	V
Supply Current	IDD	VDD=5V	1.2	1.4	1.8	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-VO	-20°C	---	---	5.2	V
		25°C	---	4.4	---	
		70°C	3.7	---	---	
CCFL Starting Voltage	VFLS	25°C	---	---	---	Vrms
CCFL Driving Voltage	VFLD	25°C	---	---	---	Vrms
CCFL Driving Current	IFLD	VFQ=450Vrms 30KHz	---	---	---	mA
LED Forward Voltage	VF	25°C	4.0	4.2	4.4	V
LED Forward Current	IF	25°C	90	120	180	mA
EL Power Supply Current	IEF	Vel=110VAC,400Hz	---	---	5.0	mA