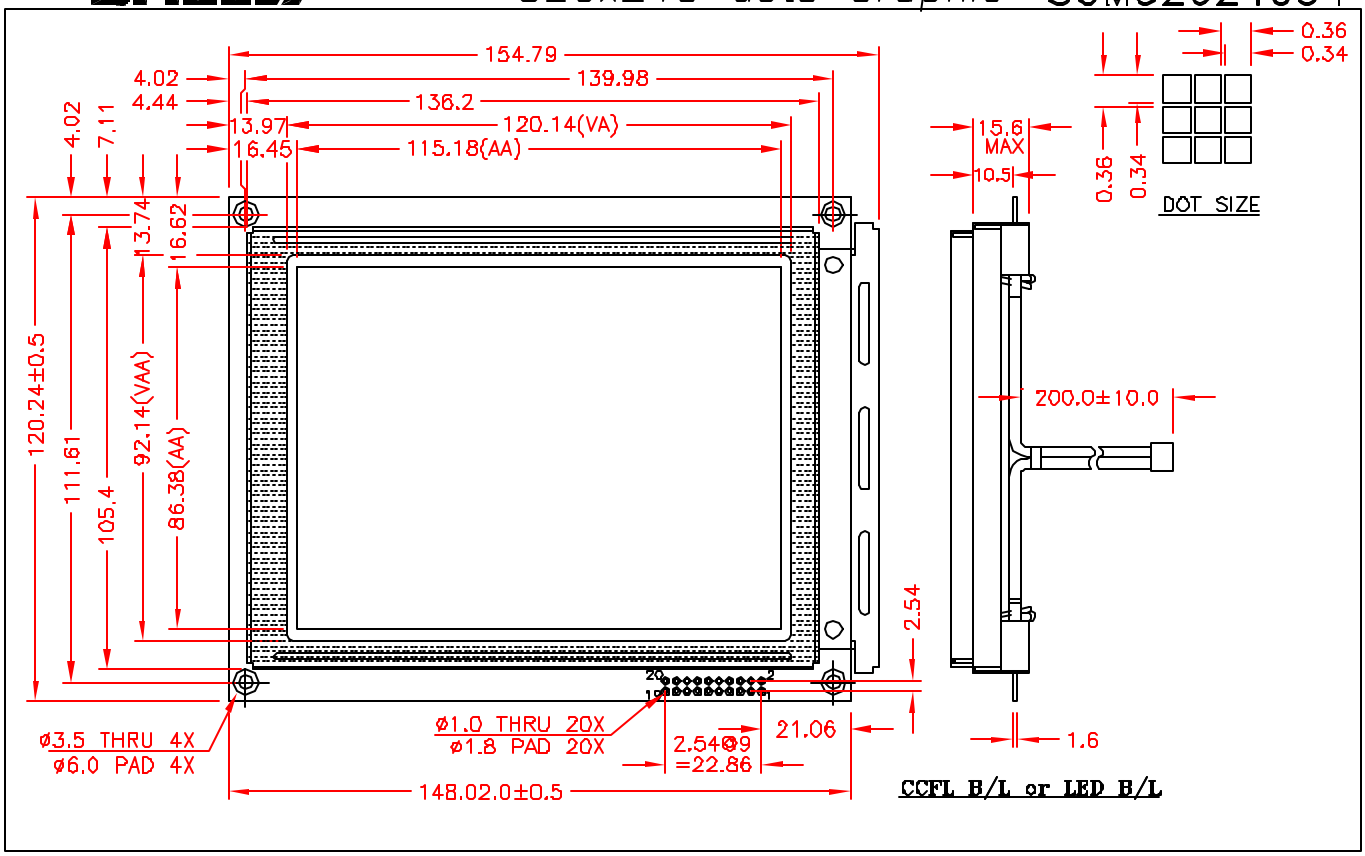
SHELLY

320x240 dots Graphic SGM32024034



Feature

1. Built-in SED 1335 controller and SRAM
2. Built-in Negative Voltage generator
3. 1/240 duty cycle
4. Temperature compensation option.
5. Touch pannel option (analog type)

Pin Assignment

Pin	Symbol	Function
1	Vss	GND
2	Vdd	Power supply for Logic
3	Vo	Driving voltage for LCD
4	$\overline{RD}$	8080 family: Read signal, 6800 family: Enable clock
5	$\overline{WR}$	8080 family: Write signal, 6800 family: R/W signal
6	Ao	Data type select
7–14	DB0–DB7	Data bus line
15	$\overline{CS}$	Chip select, Active L
16	$\overline{RES}$	Controller reset signal Active L
17	Vee	Negative Voltage output (Optional)
18	FGND	Frame ground
19	NC	No connection
20	NC	No connection

Mechanical Data

Item	Standard Value	Unit
Module Dimension	148.02 x 120.24	mm
Viewing Area	120.14 x 92.14	mm
Dot Size	0.34 x 0.34	mm
Dot Pitch	0.36 x 0.36	mm

Absolute Maximum Rating

Item	Symbol	Standard Value			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.

Electronical Characteristics

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 Voltage for Normal Temp. Version module	VDD–VO	0°c	22.0	23.0	24.0	V
		25°C	21.3	22.2	23.0	
		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 Power Supply Current	IEL	Vel=110VAC;400Hz	––	––	5.0	mA

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