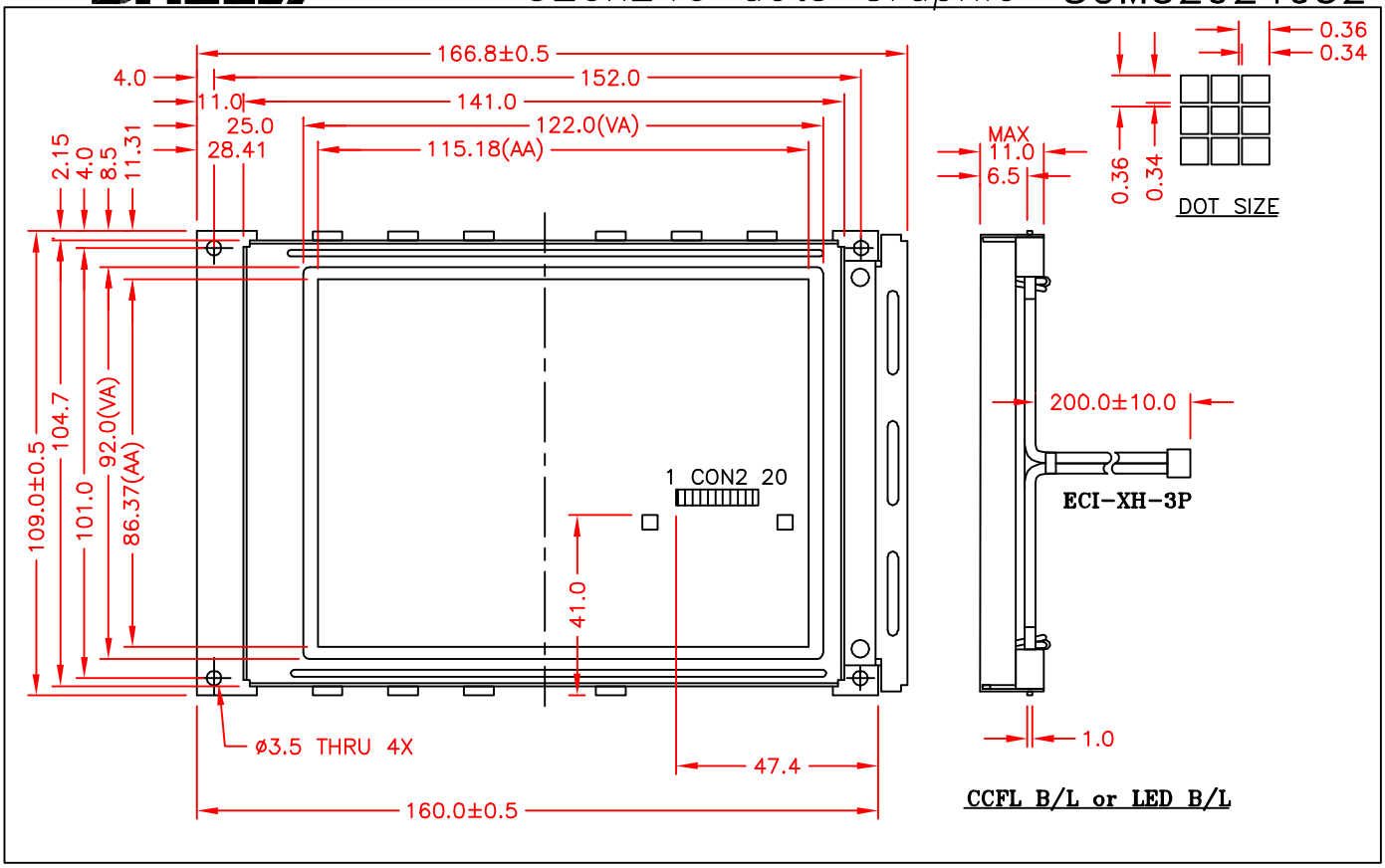
SHELLY

320x240 dots Graphic SGM32024032



Feature

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

Mechanical Data

Item	Standard Value	Unit
Module Dimension	166.8 x 109.0	mm
Viewing Area	122.0 x 92.0	mm
Dot Size	0.34 x 0.34	mm
Dot Pitch	0.36 x 0.36	mm

Pin Assignment

Pin	Symbol	Function
1	Vss	Ground
2	Vdd	Power supply for LOGIC
3	Vo	Driving voltage for LCD
4	Ao	Data type select
5	$\overline{WR}$	Write/Read Signal
6	$\overline{RD}$	Read signal/Enable clock
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
18	SEL1	H:68, L:80
19	FGND	Frame Ground
20	NC	no connection

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-V0	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 Drivng Current	IFLD	VFQ=450Vrms 30KHZ	--	5.0	--	mArms

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