

# LMG-S24012801

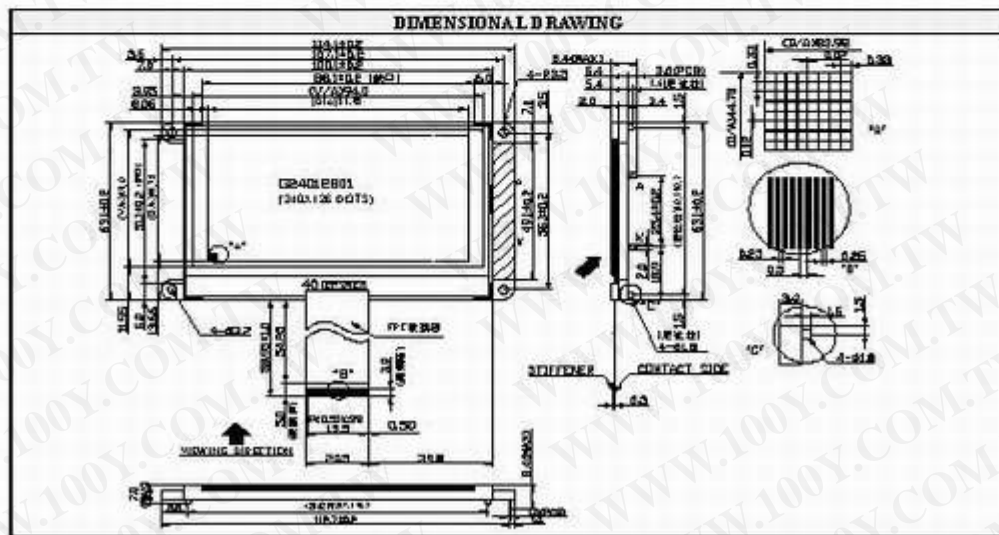
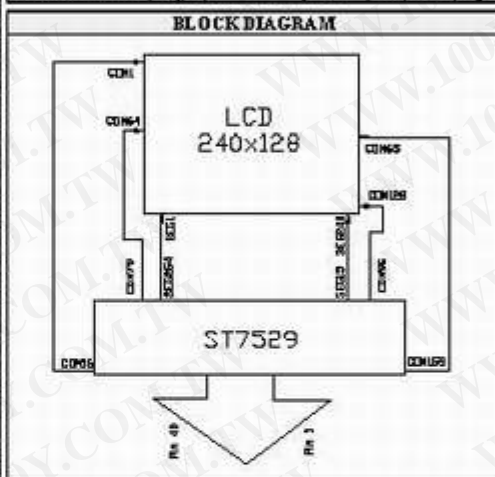
240 Dots X 128 Dots

1/128 Duty

1/12 Bias

FEATURE		ELECTRICAL	
LCD TYPE	STN, FSTN	ITEM	SYM. CONDITION MIN. TYP. MAX. UNIT
LCD CONTROLLER IC	ST7329	Supply Voltage For Logic	$V_{DD} - V_{OL}$ $I_{DD} = 25^\circ\text{C}$ 2.4 3.0 3.3 V
LCD BACKLIGHT TYPE	LBD	Supply Voltage For LCD Driver	$V_{DD}$ $I_{DD} = 25^\circ\text{C}$ 11.7 12.0 12.3 V
POWERS SUPPLY FOR LCM	DC +3.0V	Input High Voltage	$V_{IH}$ - 0.7 $V_{DD}$ - $V_{DD}$ V
LCD BACKLIGHT INPUT	DC +3.3V	Input Low Voltage	$V_{IL}$ - 0 - 0.3 $V_{DD}$ V
LCD DIMENSION	114.1 (W) X 63.1 (H)	Supply Current For Logic	$I_{DD}$ - - 2.5 - mA
LCD MEASURING	94.9 (W) X 49.9 (H)	LED Current	$I_L$ $I_{DD} = 25^\circ\text{C}$ - 91 140 mA
ACTIVE DISPLAY AREA	83.98 (W) X 44.38 (H)	OPERATING TEMP.	$T_{OP}$ - -20 - +70 $^\circ\text{C}$
LCD DOT SIZE	0.33 (W) X 0.33 (H)	STORAGE TEMP.	$T_{ST}$ - -30 - +60 $^\circ\text{C}$
LCD DOT PITCH	0.33 (W) X 0.33 (H)		

INTERFACE PIN CONNECTIONS		BLOCK DIAGRAM	
NO.	SYM. LEVEL	FUNCTION	
1	VSS	0V	
2	VDD	+3.0V	
3	A0	B/L A0 = H: Data, A0 = L: Command	
4	R/W	L: 48 Strobe: R/W; 30 Strobe: /WE	
5-12	CS0 - CS7	B/L DATA BUS CS0 - CS7	
13	FE D	L 48 Strobe: E; 30 Strobe: /ED	
14	RESET	L CONTROLLER RESET	
15-17	F1 - F3	B/L Interface Mode Select	
18	SI	B/L Serial Data Input	
19	SCL	B/L Serial Clock Input	
20	MC3	L CHIPENABLE SIGNAL	
21	VDD	+3.0V	
22	C7+	-	The Start-up Voltage Capacitance
23	C1-	-	The Start-up Voltage Capacitance
24	C3+	-	The Start-up Voltage Capacitance
25	C3+	-	The Start-up Voltage Capacitance
26	C1-	-	The Start-up Voltage Capacitance
27	C1+	-	The Start-up Voltage Capacitance
28	C2+	-	The Start-up Voltage Capacitance
29	C2-	-	The Start-up Voltage Capacitance
30	C4+	-	The Start-up Voltage Capacitance
31	C2-	-	The Start-up Voltage Capacitance
32	C4+	-	The Start-up Voltage Capacitance
33	VDD	-	LCD Driver Supply Voltage
34	VREF	-	Reference Voltage Output For Voltage Divider
35-38	V0 - V3	-	LCD Driver Supply Voltage
39	VDD1	-	LCD Driver Supply Voltage
40	VDD1	-	LCD Driver Supply Voltage



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