

LMG-S24016001

240 Dots X 160 Dots

1/160 Duty

1/13 Bias

FEATURE		
LCD TYPE	STN , FSTN	
LCM CONTROLLER IC	ST7529	
LCM BACKLIGHT TYPE	LED	
POWER SUPPLY FOR LCM	DC +3.0V	
LED BACKLIGHT INPUT	DC +3.3V	
LCM DIMENSION	114.1 (W) X 74.5 (H)	mm
LCM VIEWING	94.0 (W) X 60.4 (H)	mm
ACTIVE DISPLAY AREA	83.98 (W) X 55.98 (H)	mm
LCD DOT SIZE	0.33 (W) X 0.33 (H)	mm
LCD DOT PITCH	0.35 (W) X 0.35 (H)	mm

INTERFACE PIN CONNECTIONS			
NO.	SYM.	LEVEL	FUNCTION
1	VSS	—	0V
2	VDD	—	+3.0V
3	A0	H/L	A0 = H : Data , A0 = L : Command
4	RW_WR	L	68 Series : RW ; 80 Series : /WR
5~12	DB0~DB7	H/L	DATA Bus BIT0 ~ BIT7
13	E_RD	L	68 Series : E ; 80 Series : /RD
14	RESET	L	CONTROLLER RESET
15-17	IF1~IF3	H/L	Interface Mode Select
18	SI	H/L	Series Data Input
19	SCL	H/L	Series Clock Input
20	XCS	L	CHIP ENABLE SIGNAL
21	VDD	—	+3.0V
22	C7+	—	The Step-up Voltage Capacitance
23	C1-	—	The Step-up Voltage Capacitance
24	C5+	—	The Step-up Voltage Capacitance
25	C3+	—	The Step-up Voltage Capacitance
26	C1-	—	The Step-up Voltage Capacitance
27	C1+	—	The Step-up Voltage Capacitance
28	C2+	—	The Step-up Voltage Capacitance
29	C2-	—	The Step-up Voltage Capacitance
30	C4+	—	The Step-up Voltage Capacitance
31	C2-	—	The Step-up Voltage Capacitance
32	C6+	—	The Step-up Voltage Capacitance
33	VLCD	—	LCD Driver Supply Voltages
34	VREF	—	Reference Voltage Output For Monitor Only. Leave it Open
35~38	V4~V1	—	LCD Driver Supply Voltages
39	VOOUT	—	LCD Driver Supply Voltages
40	VOIN	—	LCD Driver Supply Voltages

ELECTRICAL						
ITEM	SYM.	CONDITION	MIN.	TYP.	MAX	UNIT
Supply Voltage For Logic	$V_{DD}-V_{SS}$	$T_a=25^{\circ}C$	2.4	3.0	3.3	V
Supply Voltage For LCD Driver	V_{LCD}	$T_a=25^{\circ}C$	13.7	14.0	14.3	V
Input High Voltage	V_{IH}	--	0.7 V_{DD}	--	V_{DD}	V
Input Low Voltage	V_{IL}	--	0	--	0.3 V_{DD}	V
Supply Current For Logic	I_{DD}	--	--	3.0	--	mA
LED Current	I_F	$T_a=25^{\circ}C$	--	117	180	mA
OPERATING TEMP.	T_{OP}	--	-20	--	+70	$^{\circ}C$
STORAGE TEMP.	T_{SP}	--	-30	--	+80	$^{\circ}C$

