

# LMG-S16016001

160 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	94.5 (W) X 74.5 (H) mm
LCM VIEWING	74.0 (W) X 60.4 (H) mm
ACTIVE DISPLAY AREA	55.98 (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	V0OUT	-	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	$^{\circ}C$

