

LMG-S24016001 240 Dots X 160 Dots 1/160 Duty 1/13 Bias

FEATURE	
LCD TYPE	STN, FSTN
LCM CONTROLLER IC	ST7529
LCD BACKLIGHT TYPE	LED
POWERS UPPLY FOR LCM	DC +5.0V
LED BACKLIGHT INPUT	DC +3.3V
LCD DIMENSION	114.1 (W) X 74.3 (H) mm
LCD VIEWING	94.0 (W) X 60.4 (H) mm
ACTIVE DISPLAY AREA	83.98 (W) X 53.98 (H) mm
LCD DOT SIZE	0.33 (W) X 0.33 (H) mm
LCD DOT PITCH	0.33 (W) X 0.33 (H) mm

ELECTRICAL						
ITEM	SYM	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V_{DD}/V_{DD}	$I_a=25^\circ\text{C}$	2.4	3.0	3.3	V
Supply Voltage For LCD Driver	V_{LCD}	$I_a=25^\circ\text{C}$	13.7	14.0	14.3	V
Input High Voltage	V_{IH}	-	$0.7V_{DD}$	-	V_{DD}	V
Input Low Voltage	V_{IL}	-	0	-	$0.3V_{DD}$	V
Supply Current For Logic	I_{DD}	-	-	3.0	-	mA
LED Current	I_L	$I_a=25^\circ\text{C}$	-	11.7	130	mA
OPERATING TEMP.	T_{OP}	-	-20	-	+70	$^\circ\text{C}$
STORAGE TEMP.	T_{ST}	-	-30	-	+60	$^\circ\text{C}$

INTERFACE PIN CONNECTIONS			
NO.	SYM.	LEVEL	FUNCTION
1	VSS	-	0V
2	VDD	-	+5.0V
3	A0	H/L	A0 = H: Data, A0 = L: Command
4	R/W/WE	L	CS Series: R/W, CS Series: WE
5-12	D0-D7	H/L	DATA Bus D0 ~ D7
13	R/D	L	CS Series: R, CS Series: RD
14	R/RES1	L	CONTRAST RESET
15-17	F1-F3	H/L	Interface Mode Select
18	M	H/L	Series: Data Input
19	SCL	H/L	Series: Clock Input
20	NC3	L	CHIPENABLE SIGNAL
21	VDD	-	+5.0V
22	C1+	-	The 8-supply Voltage Capacitance
23	C1-	-	The 8-supply Voltage Capacitance
24	C2+	-	The 8-supply Voltage Capacitance
25	C2-	-	The 8-supply Voltage Capacitance
26	C1-	-	The 8-supply Voltage Capacitance
27	C1+	-	The 8-supply Voltage Capacitance
28	C2+	-	The 8-supply Voltage Capacitance
29	C2-	-	The 8-supply Voltage Capacitance
30	C4+	-	The 8-supply Voltage Capacitance
31	C2-	-	The 8-supply Voltage Capacitance
32	C4+	-	The 8-supply Voltage Capacitance
33	VLCD	-	LCD Driver Supply Voltage
34	VEEP	-	Reference Voltage Output For Voltage Only. Leave it Open
35-38	V1-V4	-	LCD Driver Supply Voltage
39	VDD01	-	LCD Driver Supply Voltage
40	VDD	-	LCD Driver Supply Voltage

