

# LMG-S32B24

320 Dots X 240 Dots

1/240 Duty

1/17 Bias

## FEATURE

LCD TYPE	STN, FSIN	
LCD CONTROLLER IC	--	
LCD BACKLIGHT TYPE	LED, CCFL	
POWER SUPPLY FOR LCM	DC +5V	
LED BACKLIGHT INPUT	DC +5V	
FL INVERTER	FL001-5A / FL001-12A	
LCD DIMENSION	140.0 (W) X 109.0 (H)	mm
LCD VIEWING	122.0 (W) X 92.0 (H)	mm
ACTIVE DISPLAY AREA	115.17 (W) X 84.37 (H)	mm
LCD DOT SIZE	0.33 (W) X 0.33 (H)	mm
LCD DOT PITCH	0.34 (W) X 0.34 (H)	mm

## ABSOLUTE MAXIMUM RATINGS

ITEM	SYM.	MIN.	TYP.	MAX.	UNIT
OPERATING TEMP.	$T_{op}$	-20	--	+70	$^{\circ}C$
STORAGE TEMP.	$T_{stg}$	-30	--	+80	$^{\circ}C$
INPUT VOLTAGE	$V_i$	$V_{in}$	--	$V_{op}$	V
SUPPLY VOL. FOR LOGIC	$V_{DD}-V_{SS}$	--	3.0	4.5	V
SUPPLY VOL. FOR LCD	$V_{DD}-V_{SS}$	--	23.0	28.0	V

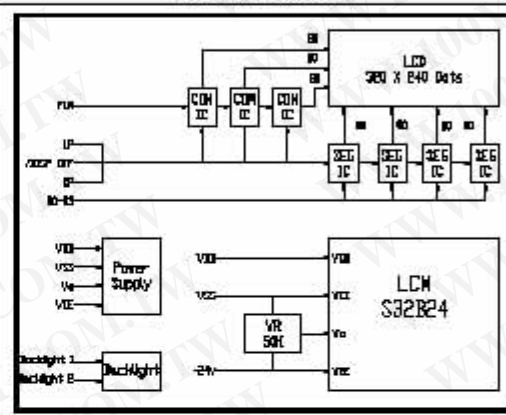
## INTERFACE PIN CONNECTIONS

NO.	SYM.	LEVEL	FUNCTION
1	D0	H/L	Display Data Bus Bit 0
2	D1	H/L	Display Data Bus Bit 1
3	D2	H/L	Display Data Bus Bit 2
4	D3	H/L	Display Data Bus Bit 3
5	MDISP OFF	H/L	H: ON / L: OFF
6	BLM	H	Back light maker
7	NC	--	No connection
8	LP(CLK)	H-L	Data latch signal
9	CP(CLK)	H-L	Data shift signal
10	VDD	--	Power supply for Logic (+5V)
11	VSS	--	Signal Ground (0V)
12	VBE	--	Back plane Voltage (DC -24.0V)
13	VO	--	Contrast Adjust
14	FGND	--	Front Panel Ground

## ELECTRICAL

ITEM	SYM.	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	$V_{DD}-V_{SS}$	$T_s=25^{\circ}C$	4.5	5.0	5.5	V
Supply Voltage For LCD Driver	$V_{DD}$	$T_s=25^{\circ}C$	22.7	23.0	23.3	V
Input High Voltage	$V_{IH}$	--	2.2	--	$V_{DD}$	V
Input Low Voltage	$V_{IL}$	--	0	--	0.4	V
Supply Current For Logic	$I_{DD}$	$V_{DD}=+5V$	--	7.0	10.0	mA
LED Current	$I$	$T_s=25^{\circ}C$	--	208	--	mA

## BLOCK DIAGRAM



## DIMENSIONAL DRAWING

