

LM3098

1/240 DUTY

SPECIFICATIONS FOR GRAPHIC TYPE LCM

FEATURE

1. 320 x 240 dots matrix
2. 4-bits parallel data input from a LCD controller
3. +3.3V Power Supply
4. 1/240 Duty Cycle
5. Include M signal and DC-DC converter
6. FSTN black & white LCD panel with 4 gray level

ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Min.	Type.	Max.	Unit
SUPPLY VOLTAGE FOR LOGIC	$V_{DD}-V_{SS}$	----	2.5	3.3	5.5	V
SUPPLY VOLTAGE FOR LCD DRIVER	----	----	---	----	---	V
OPERATING VOLTAGE FOR LCD MODULE	$V_{CON}-V_{SS}$	----	1	----	2.5	V
INPUT HIGH VOL.	V_{IH}	----	$0.8V_{DD}$	----	V_{DD}	V
INPUT LOW LEVEL	V_{IL}	----	0		$0.2V_{DD}$	V
SUPPLY CURRENT FOR LOGIC	I_{DD}	$V_{DD}=5V$	----	20	----	mA

INTERFACE PIN CONNECTIONS

NO.	SYM.	LEVEL	FUNCTION
1	FLM	H/L	The FLM signal indicating the beginning of each display cycle
2	CL1	H/L	Display data latch (latch clock)
3	CL2	H/L	Display data shift (shift clock)
4	V_{SS}		Ground
5	Disp	H/L	Display control signal (ON="H", OFF="L")
6	D0	H/L	Display data
7	D1	H/L	Display data
8	D2	H/L	Display data
9	D3	H/L	Display data
10	V_{DD}		Power supply
11	V_{SS}		Ground
12	V_{CON}		LCD contrast control 1V~2.5V

MAXIMUM RATINGS

Item	Symbol	Min	Max	Unit
Input Voltage	V_{IN}	-0.3	$V_{DD}+0.3$	V
Operating temperature	T_{op}	0	50	
Storage temperature	T_{st}	-20	60	
Supply voltage for logic	$V_{DD}-V_{SS}$	-0.3	7.0	V

OUTLINE DIMENSION

