

UNCONTROLLED DOCUMENT

PART NUMBER

LCM-H24064GSF/B-Y

REV.

E.C.N. NUMBER AND REVISION COMMENTS

DATE

ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	MIN	TYP	MAX	UNIT
POWER SUPPLY VOLTAGE FOR LOGIC	VDD	Ta=25°C	4.5	5.0	5.5	٧
POWER SUPPLY CURRENT FOR LOGIC	IDD	VDD-VSS=5V	_	16.0	25.0	mA
INPUT VOLTAGE	VIH	HIGH LEVEL	2.2	_	VDD	٧
INPUT VOLTAGE	VIL	LOW LEVEL	_	_	0.6	V
OUTPUT VOLTAGE	VOH	HIGH LEVEL	2.4	_	_	V
OUTPUT VOLTAGE	VOL	LOW LEVEL	-	_	0.4	V
POWER SUPPLY VOLTAGE FOR LCD DRIVE (0°C TO 50°C)	VDD-Vo	VDD=5V Ta=25°C	12.2	13.6	14.5	٧
POWER SUPPLY VOLTAGE FOR LCD DRIVE (-20°C TO +70°C)	VDD-Vo	VDD=5V Ta=25°C	12.6	14.1	14.9	٧
LED BACKLIGHT VOLTAGE	Vf	If= 690	-	4.2	4.6	٧
LED BACKLIGHT INTENSITY	lv	If= 690	120	180	-	cd/m²
LED POWER DISSIPATION	PAD	If= 690	_	_	5	l w

ELECTRIC MAXIMUM RATING

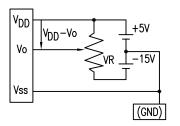
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ITEM	SYMBOL	MIN	TYP	MAX	UNIT
POWER SUPPLY FOR LCD DRIVE	VDD-Vo	0	-	20.0	٧
POWER SUPPLY FOR LOGIC	VDD-VSS	0	_	7.0	V
INPUT VOLTAGE	VI	VSS	_	VDD	V

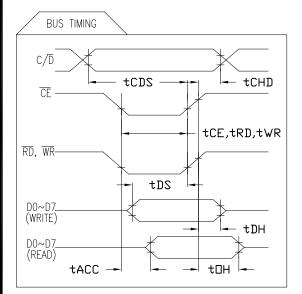
Α

TIMING CHARACTERISTICS

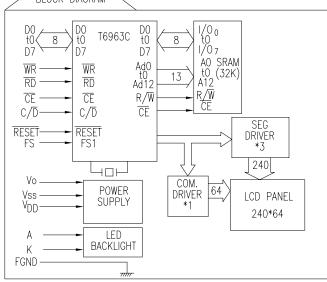
PARAMETER	SYMBOL	MIN	MAX	UNIT
C/D SETUP TIME	tCDS	100	-	ns
C/D HOLD TIME	tCDH	10	-	ns
CE, RD, WR PULSE WIDTH	tCE, tRD, tWR	80	-	ns
DATA SETUP TIME	tDS	80	-	ns
DATA HOLD TIME	tDH	40	-	ns
ACCESS TIME	tACC	_	150	ns
OUTPUT HOLD TIME	tОН	10	50	ns

V_{DD} -Vo: LCD DRIVING VOLTAGE VR: $10K\Omega - 20K\Omega$





BLOCK DIAGRAM



PIN CONFIGURATION

SEE PAGE #1

SYMBOL	LEVEL	FUNCTION
FGND	-	FRAME GROUND (CONNECTED TO METAL BEZEL)
GND	0V	SIGNAL GROUND
VDD	+5V	POWER SUPPLY
Vo	_	POWER SUPPLY FOR LCD DRIVE.
WR	L	DATA WRITE
RD	L	DATA READ
CE	L	CHIP ENABLE
C/D	H/L	WR="L", C/\overline{D} ="H": COMMAND WRITE C/\overline{D} ="L": DATA WRITE RD="L", C/\overline{D} ="H": COMMAND READ C/\overline{D} ="L": DATA READ
N/C	-	NO CONNECTION
RESET	∟	CONTROL RESET (MODULE RESET)
D0~D7	H/L	DATA BUS
FS	H/L	FONT SELECT "H": 6 x 8 PIXEL/FONT "L": 8 x 8 PIXEL/FONT
N/C		NO CONNECTION
K	-	LED BACKLIGHT CATHODE
А	ı	LED BACKLIGHT ANODE, 4.2V
	FGND GND Vo WR RD CE C/D N/C RESET D0~D7 FS N/C K	FGND - GND OV VDD +5V Vo - WR L RD L CE L C/D H/L N/C - RESET L D0~D7 H/L N/C - K -

REV.

PART NUMBER LCM-H24064GSF/B-Y

240 x 64 DOT MATRIX GRAPHIC LCD MODULE, STN YELLOW, TRANSFLECTIVE, -20°C TO +70°C OP. TEMP., 1/64 DUTY, 1/9 BIAS, LED BACKLIGHT.

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OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



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2.2.04 2 OF 2 PAGE: SCALE: N/A

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