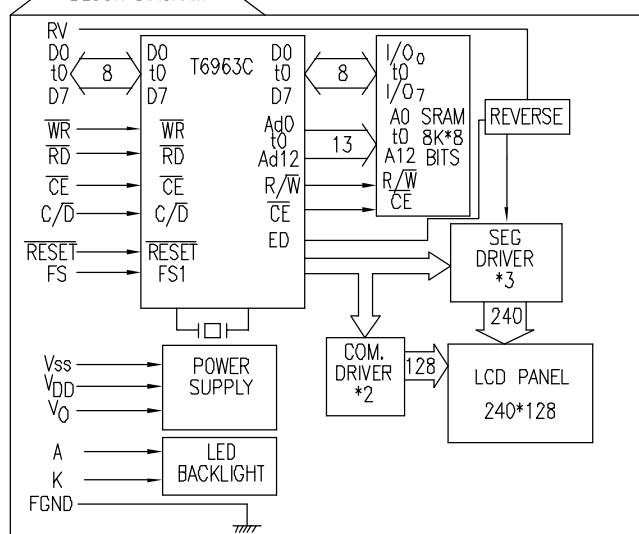


SCALE: N/A

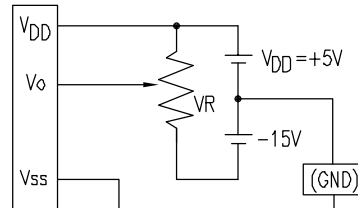
PIN CONFIGURATION

PIN #	SYMBOL	LEVEL	FUNCTION
1	FGND	-	FRAME GROUND
2	Vss	-	GROUND (0V)
3	V _{DD}	5V	POWER SUPPLY FOR LOGIC CIRCUIT
4	V _o	-	POWER SUPPLY VOLTAGE FOR LCD DRIVING
5	WR	L	WRITE SIGNAL
6	RD	L	READ SIGNAL
7	CE	L	CHIP ENABLE SIGNAL
8	C/D	H/L	H: DATA, L: INSTRUCTION CODE
9	NC	-	NO CONNECTION
10	RST	L	RESET SIGNAL
11~18	DB0~DB7	-	DATA BUS
19	FS	H/L	FONT SELECT H: 6x8, L: 8x8
20	RV	-	REVERSE DATA IN. VDD: POSITIVE, GND: NEGATIVE

BLOCK DIAGRAM



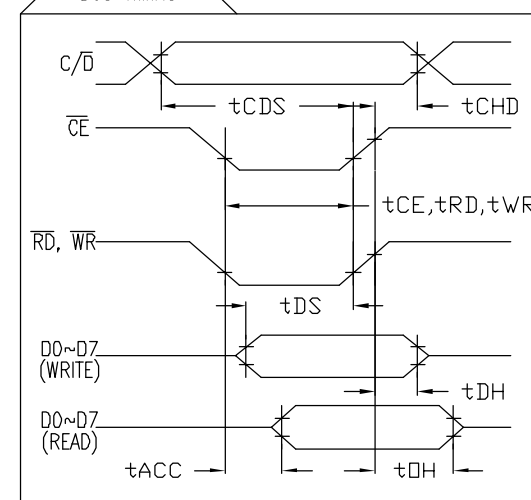
V_{DD}-V_o: LCD DRIVING VOLTAGE
VR: 10KΩ-20KΩ



TIMING CHARACTERISTICS

PARAMETER	SYMBOL	MIN	MAX	UNIT
C/D SETUP TIME	t _{CDS}	100	-	ns
C/D HOLD TIME	t _{CDH}	10	-	ns
CE, RD, WR PULSE WIDTH	t _{CE} , t _{RD} , t _{WR}	80	-	ns
DATA SETUP TIME	t _{DS}	80	-	ns
DATA HOLD TIME	t _{DH}	40	-	ns
ACCESS TIME	t _{ACC}	-	150	ns
OUTPUT HOLD TIME	t _{OH}	10	50	ns

BUS TIMING



*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION -0.00 MAX= +0.00 -DECIMAL PRECISION

REV.

PART NUMBER

LCM-X240128GXX/A

240 x 128 GRAPHIC LCD MODULE, 1/128 DUTY,
T6963C CONTROLLER BUILT IN, CCFL BACKLIGHT.

CONFIDENTIAL INFORMATION

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RELIABILITY NOTE

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.



290 E. HELEN ROAD
PALATINE, IL 60067-6976
PHONE: +1.847.359.2790
US WEB: www.lumex.com
TW WEB: www.lumex.com.tw

DRAWN BY:

CHECKED BY:

APPROVED BY:

DATE: 1.19.04

CT

PAGE: 2 OF 2

SCALE: N/A