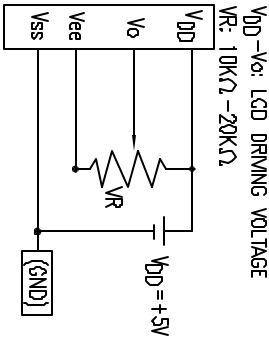


PART NUMBER			REV.
LCM-X160160GXX			A
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE	
A	E.C.N. #10738, & #10BRDR.	5.21.01	

PIN CONFIGURATION			
PIN NO.	SYMBOL	LEVEL	FUNCTION
1	V _{SS}	0V	GND
2	V _{DD}	5V	SUPPLY VOLTAGE FOR LOGIC
3	V _O	—	CONTRAST VOLTAGE FOR LCD DRIVE(VARIABLE)
4	RD	L	READ SIGNAL
5	WR	L	WRITE SIGNAL
6	CS	L	CHIP SELECT
7	AO	H/L	DATA TYPE SELECT
8~15	DB0~DB7	H/L	DATA BUS
16	RES	L	RESET SIGNAL (NOTE 1)
17	VEE	—	POWER SUPPLY VOLTAGE FOR LCD
18	A	4.2V	ANODE
19	K	—	CATHODE
20	(N/C)	—	NO CONNECTION

- NOTES:
- RES IS A SCHMITT TRIGGER INPUT. THE PULSEWIDTH ON RES MUST BE AT LEAST 200 μ s. PULSES OF MORE THAN A FEW SECONDS WILL CAUSE DC VOLTAGES TO BE APPLIED TO THE LCD PANEL.



ELECTRICAL CHARACTERISTICS				V _{DD} =4.75V to 5.25V, T _A =25°C			
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT	
			MIN.	TYP.	MAX.		
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	-				V	
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -V _{EE}	-	4.75	5.0	5.25	V	
SUPPLY CURRENT FOR LOGIC	I _{DD}	-	-	18.2	-	V	
INPUT VOLTAGE	V _{IH}	-	-	-	20	mA	
	V _{IL}	-	0.2	-	V _{DD}	V	
OUTPUT VOLTAGE	V _{OH}	I _{OH} =-3.0mA	0	-	0.8	V	
	V _{OL}	I _{OL} =3.0mA	2.4	-	-	V	
*LED BACKLIGHT	V _F	I _F =560mA	-	-	0.4	V	
	I _F	-	-	4.2	4.5	V	
	P _D	-	-	560	-	mA	
	LUMINOUS COLOR	L	I _F =560mA	-	2.8	-	W
			-	-	-	cd/m ²	
			-	570	-	nm	

*ONLY APPLIES TO MODULES WITH BACKLIGHT

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE X $\pm$ 1 (±0.039), XX $\pm$ 0.5 (±0.020), XXX $\pm$ 0.25 (±0.010), XXXX $\pm$ 0.127 (±0.005)

LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN= -0.00 MAX= +0.00 DECIMAL PRECISION

REV. PART NUMBER
A LCM-X160160GXX

160 x 160 DOT MATRIX GRAPHIC MODULE,
1/160 DUTY, STN WITH NEGATIVE CHARGE PUMP.

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RELIABILITY NOTE
OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND TYPICAL 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

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SA/CT PAGE: 2 OF 2
SCALE: N/A