

UNCONTROLLED DOCUMENT

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

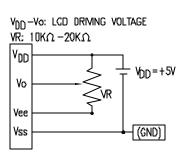
A		PIN	CONFIGURATION			
	PIN	NO.	SYMBOL	LEVEL		
	4		Ven	ΛV		

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PIN NO.	SYMBOL	LEVEL	FUNCTION			
1	V55	٥٧	GND			
2	VDD	5V	SUPPLY VOLTAGE FOR	? LOGIC		
3	Vo	-	CONTRAST VOLTAGE F	OR LCD DRIVE(VARIABLE)		
4	RD	L	READ SIGNAL			
5	WR	L	WRITE SIGNAL			
6	<u>CS</u>	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	LED BACKLIGHT		
19	K	-	CATHODE	LED BACKLIGHT		
20	(N/C)	-	NO CONNECTION			

NOTES:

570

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



/ LELOTINOIL GIAMOTERISTICS VDD-+7/0V to 3.20V, IA-20 C								
ПЕМ		SYMBOL	СОИДШОИ	STANDARD VALUE			UNIT	
IIEM				MIN.	TYP.	MAX.	I	
SUPPLY VOLTAGE FOR LOGIC			VDD-Ass	-	4.75	5.0	5.25	٧
SUPPLY VOLTAGE FOR LCD DRIVE			VDD -VEE	_	1	18.2	-	٧
SUPPLY CURRENT FOR LOGIC			l _{DD}	-	1	ı	20	mΑ
INPUT VOLTAGE HIGH LOW		٧ _{IH}	_	0.2	ı	۷ _{DD}	٧	
		V_{IL}	_	0	ı	8.0	٧	
OUTPUT VOLTAGE HIGH LOW		V_{OH}	ЮH=-3.0mA	2,4	ı	-	٧	
		٧ _٥	I _{QL} =3.0mA	1	ı	0.4	٧	
*LED BACKLIGHT	VOLTAGE		Vf	lf=560mA	_	4.2	4.5	٧
	CURRENT		Ιf	-	-	560	-	mΑ
	POWER CUNSUMPTION		PD	-	-	2.8	-	W
	LUMINOUS		L	lf=560mA	6D	-	-	cd/m²

 $V_{NN}=4.75V$ to 5.25V. $T_{N}=25^{\circ}C$

*ONLY APPLIES TO MODULES WITH BACKLIGHT

COLOR

FLECTRICAL CHARACTERISTICS

ABSOLUTE	MAXIMUM	RATINGS

ITFM	SYMBOL	TEST	STANDAR	D VALUE	UNIT
IIEM		CONDITION	MIN	MAX	SINII
SUPPLY VOLTAGE FOR LOGIC	2aV-ggV	Ta=25°C	0	7.0	٧
SUPPLY VOLTAGE FOR LCD DRIVE	Von-VEE	ı	17. 2©4 0°C	19.2 9 0°C	٧
INPUT VÖLTAGE	٧	Ta=25°C	V\$S	V DD	>
OPFRATING TEMPERATURE	Торг	LCM-S	0	50	ô
OF LIVALING TEMPLIVATURE		LCM-H	-20	70	'C
STORAGE TEMPERATURE	Tstg	LCM-S	-20	70	ပ္
SIDNAGE IEMFERATURE		LCM-H	-30	85	့

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REV. PART NUMBER LCM-X160160GXX

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

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RELIABILITY NOTE DUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT

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