

REV. PART NUMBER UNCONTROLLED DOCUMENT LCM-X01601DXX А E.C.N. NUMBER AND REVISION COMMENTS REV. DATE SEE PAGE #1./ PIN CONFIGURATION FIN NO. SYMBOL LEVEL FUNCTION Vss _ GND (OV) 1 2 VDD _ POWER SUPPLY 5V V_{DD}-Vo; LCD DRIVING VOLTAGE BLOCK DIACRAM 16 x 1, 1/16 DUTY, 1/5 BIAS 3 V٥ For LCD DRIVE VŘ 10KΩ -20KΩ — DB 7 5 < REGISTER SELECT SIGNAL VDD °, ℃ COM 8 4 RS H/L H: DATA INPUT V_{DD}−V≎ L: INSTRUCTION INPUT V٥ LCD LCD PANEL COM 8 H; DATA READ (MODULE——>MPU) CONTROLLER R∕₩ R∕₩ H/L 5 L: DATA WRITE (MODULE<--MPU) (GND) ŔS-LSI Vss 9 H,H->L ENABLE 6 Е Veg -DATA BUS-SOFTWARE SELECTABLE 4 OR 8 BIT MODE. 7~14 DB0~DB7 H/L VDD ANODE LED BACKLIGHT 15 _ Va Α CATHODE LED BACKLIGHT 15 Κ _ Α LED BACKLIGHT κ

ELECTRICAL CHARACTERISTICS \bigvee V _{DD} =4.7V to 5.3V, T _A =25°C								
ПЕМ		SYMBOL	CONDITION	STANDARD VALUE				
ITEM				MIN.	TYP.	MAX.	UNIT	
SUPPLY VOLTAGE FOR LOGIC		V _{DD} -Vss	-	-	5.0	-	٧	
SUPPLY CURRENT FOR LOGIC		DD	V _{DD} =5V	-	1.6	2.5	mA	
INPUT VOLTAGE HIGH LOW		VIH	-	2.2	-	V _{DD}	٧	
		VIL	-	0	-	0.6	٧	
OUTPUT VOLTAGE HIGH LOW		V _{OH}	I	2.4	-	Ι	٧	
		LOW	V _{OL}	I	-	-	0.4	٧
*LED Backlight	VOLTAGE		Vf	lf=150mA	-	4.2	4.6	٧
	CURRENT		lf	-	-	150	200	mA
	POWER CUNSUMPTION		PD	-	-	630	Ι	mW
	LUMINOUS		L	lf=150mA	70	-	-	cd/m²
	COLOR		-	_	-	-	-	IM

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS ITEM SYMBOL CONDITION

SUPPLY VOLTAGE FOR LOGIC	V _{DD} -Vss	Ta=25°C	4.7	5.3	۷
SUPPLY VOLTAGE FOR LCD DRIVE	VDD-Vo	-	4.2050°C	4.8@0°C	٧
INPUT VOLTAGE	V	Ta=25°C	Vss	V _{DD}	۷
OPERATING TEMPERATURE	Topr	LCM-S	0	V _{DD} 50 70	.С
UPERATING TEMPERATURE	ropr	LCM-H	-20	70	°C
STORAGE TEMPERATURE	Tata	LCM-S	-20	70	ċ
SIONAGE TEMPERATURE	Tstg	ICM-H	30	85	' C

*UNLESS OTHERWISE SPECIFIED TOLERANCE IS ±0.25mm (±0.010")

TEST

STANDARD VALUE

MAX

MIN

UNIT

rev. A	part number LCM—X01601DXX	CONFIDENTIAL NEORNATION THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WIRTING BY LUMEX INC. THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR		RATED	290 E. HELLEN ROAD PALATINE, ILLINDIS 60067 PHONE: 1–847–359–2790 WEB: HTTP://WWW.LUMEX.COM		
	6.56mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX, 16 x 1 LCD MODULE, 1/16 DUTY, 1/5 BIAS.	IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THRO PARTES. <u>BELUBULTY NOTE</u> OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION NOICATE THAT SOLDER HEAT IS A WAAR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.	DRAWN BY: sa/bc	CHECKED BY:		DATE: 8–21–98 PAGE: 2 OF 2 SCALE: N/A	

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