

## UNCONTROLLED DOCUMENT

_	D DOCUN	MENT	part number LCM-X01604DXX		
			REV. E.C.N. NUMBER AND REVISION COMMENTS	DA	•
			SEE PAGE #1./		
1	FUNCTION				
	POWER SUPPLY	GND (OV) 5V FOR LCD DRIVE	$V_{DD}$ -Vo: LCD DRIVING VOLTAGE VR: 10K $\Omega$ -20K $\Omega$	BIAS	
	REGISTER SELECT SIG H: DATA INPUT L: INSTRUCTION INPUT		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
	H: DATA READ (MQDU L: DATA WRITE (MQDU	•			
-	ENABLE			FI	
	ANODE	SELECTABLE 4 OR 8 BIT MODE. LED BACKLIGHT			
	CATHODE	LED BACKLIGHT			

	AL CHARAC	TERISTICS	⊠ v <sub>DD</sub> =	4.7V to 5.3V, TA=	25°C			
ITEM			SYMBOL	CONDITION	STANDARD VALUE			UNIT
IIEM					MIN.	TYP.	MAX.	
SUPPLY VO	ltage for	LOGIC	V <sub>DD</sub> -Vss	-	-	5.0	-	٧
SUPPLY CURRENT FOR		LOGIC	IDD	V <sub>DD</sub> =5V	-	2.0	3.0	mA
		HIGH	VIH	-	2.2	-	4.7	۷
INPUT VOLT	IAGE	LOW	۷ <sub>IL</sub>	-	0	-	0.6	٧
		HIGH	V <sub>OH</sub>	-	2.4	-	-	٧
OUTPUT VOLTAGE LOW		V <sub>OI</sub>	-	-	-	0.4	٧	
	VOLTAGE		Vf	lf=260mA	-	4.2	4.5	٧
*! = D	CURRENT		lf	-	-	260	400	mA
*LED BACKLIGHT	POWER CUNSUMPTION		PD	_	-	1092	-	тW
	LUMINOUS		L	lf=260mA	70	-	-	cd/n
	COLOR		-	-	-	-	-	nm

**\*ONLY APPLIES TO MODULES WITH BACKLIGHT** 

PIN CONFIGURATION

Уэв

VDD

Va

RS

R/W

Ε

DB0~DB7

Α

Κ

LEVEL

\_

\_

\_

H/L

H/L

H,H->L

H/L

-

\_

PIN NO. SYMBOL

1

2

3

4

5

6

7~14

15

16

	А	 LED BACKLIGHT	
LUTE MAXIMUM RATIN	VGS		

PART NUMBER

ABSOLUTE MAXIMUM RATINGS							
ÍTEM	SYMBOL	TEST	STANDARD VALUE		UNIT		
	JUDUL	CONDITION	MIN	MAX			
SUPPLY VOLTAGE FOR LOGIC	VDD-Vss	Ta=25°C	4.7	5.3	۷		
SUPPLY VOLTAGE FOR LCD DRIVE	Vpp-V₀	-	4.2@50°C	4.800°C	۷		
INPUT VOLTAGE	VI	Ta=25°C	V59	۷ <sub>DD</sub>	۷		
OPERATING TEMPERATURE	Topr	LCM-S	0	50	ç		
		lcm—h	-20	70	<b>°</b>		
storage temperature	Tøtg	LCM-S	-20	70	<b>°</b>		
STORAGE TEMPERATURE		lcm—h	-30	85	ċ		

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REV.

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DATE

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	16	4.75mm TALL, 5 x 8 DOT MATRIX, x 4 CHARACTER LCD MODULE, 1/16 DUTY, 1/5 BIAS.	In part from desclosure and dissemination to all thro parters. <u>Reliability note</u> Our many years of exprence data accumulation noicate That souder heat is a major gause of early and future Failure. Please pay attention to your soldering process.	DRAWN BY: sa/bc	CHECKED BY:		ATE: 8-10-98 AGE: 2 OF 2 CALE: N/A

## **Mouser Electronics**

Authorized Distributor

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Lumex:

LCM-H01604DSF LCM-S01604DSF LCM-S01604DTR