UNCONTROLLED DOCUMENT

PART NUMBER LCM-X01602DXX/I

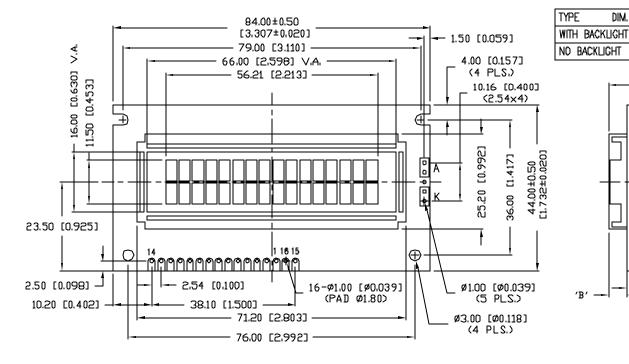
DATE

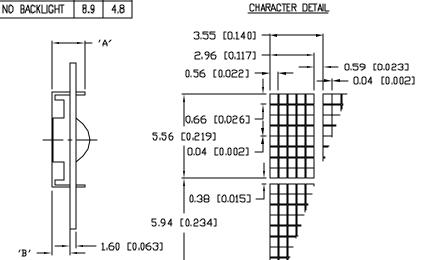
REV.

E.C.N. NUMBER AND REVISION COMMENTS E.C.N. #10464./

10-9-98

P/N PREFIX/SUFFIX TABLE							
LCM	-X	DXX	DESCRIPTION				
STANDARD	s	SR	STN, REFLECTIVE				
STANDARD		SF	STN, TRANSFLECTIVE(W/ BACKLIGHT)				
HIGH TEMP.	H	TR	TN, REFLECTIVE				
I LIGH IEME		TF	TN, TRANSFLECTIVE(W/ BACKLIGHT)				





CAUTION: STATIC SENSITIVE DEVICE FOLLOW PROPER E.S.D. HANDLING PROCEDURES WHEN WORKING WITH THIS PART.

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

REV. PART NUMBER LCM-X01602DXX/I

5.56mm CHARACTER HEIGHT, 16 x 2 CHARACTERS, 5 x 8 DOT MATRIX, LCD MODULE, 1/16 DUTY, 1/5 BIAS.

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SA/BC

DIM.

12.7

В

8.8

290 E. HELLEN ROAD PALATINE, ILLINOIS 60067 PHONE: 1-847-359-2790 WEB: HTTP://WWW.LUMEX.COM

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SCALE: N/A

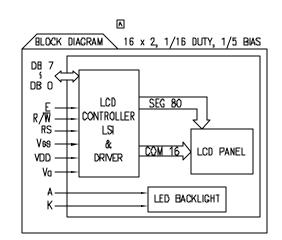
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PART NUMBER						
LCM-X01602DXX/I						
٧.	E.C.N. NUMBER AND REVISION COMMENTS	D/	ATE.			
	SEE PAGE #1./					

PIN CONFIGURATION

PIN NO.	SYMBOL	LEVEL	FUNCTION				
1	Vss	-	GND (OV)				
2	v_{DD}	-	POWER SUPPLY	5V			
3	Vo	1		FOR LCD DRIVE			
			REGISTER SELECT SIGNAL				
4	4 RS H/L		H: DATA INPUT				
			L: INSTRUCTION INPUT				
5	R∕W	H/L	H: DATA READ (MODULE>MPU)				
ם ו	ry w		L: DATA WRITE (MODU	JLE <mpu)< td=""></mpu)<>			
6	E	H,H->L	ENABLE				
7~14	DB0~DB7	H/L	DATA BUS-SOFTWARE SELECTABLE 4 OR 8 BIT MODE.				
15	Α	1	ANODE	LED BACKLIGHT			
16	K		CATHODE	LED BACKLIGHT			

	-Vo; LCD DRIVING VOLTAGE 10KΩ -20KΩ
V_{DD}	 v v-
Vo	V _{DD} -V ₀ +5V
Vss	VR (GND)



ELECTRICAL CHARACTERISTICS

 $V_{DD} = 4.7V$ to 5.3V, $T_A = 25$ °C

		1 100 11		1				
Іпем		SYMBOL	CONDITION	STANDARD VALUE			UNIT	
II CM				MIN.	TYP.	MAX.	LINII	
SUPPLY VC	SUPPLY VOLTAGE FOR LOGIC		V _{DD} -Vss	1	_	5.0	1	٧
SUPPLY CURRENT FOR LOCIC		DD	V _{DD} =5V	_	2.0	3.0	mΑ	
HIGH		⊒≺	1	2.2	1	4.7	٧	
INPUT VOL	INPUT VOLTAGE LOW		>⊒	1	0	1	0.6	٧
	OUTPUT VOLTAGE HIGH LOW		√o⊤	I	2.4	1	1	٧
OUTPUT VO			√Ö	I	-	1	0.4	٧
	VOLTAGE		Vf	lf=150mA	-	4.2	4.5	٧
*LED BACKLIGHT	CURRENT		If	1	-	160	400	mΑ
	POWER CUNSUMPTION		PD	1	-	660	1	mW
	LUMINOUS		L	lf=160mA	70	-	-	cd/m²
	COLOR		_	_	_	_	_	ım

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS

/	\					
ПЕМ	SYMBOL	TEST	STANDARD VALUE		UNIT	
TIEW .	JINIDOL	CONDITION	MIN	MAX	OIVII	
SUPPLY VOLTAGE FOR LOGIC	VDD-Vss	Ta=25°C	4.7	5.3	>	
SUPPLY VOLTAGE FOR LCD DRIVE	VDD-Vo	-	4.2⊜50°€	4.8 @ 0°C	٧	
INPUT VOLTAGE	٧ _I	Ta=25°C	Vss	∨ ^{DD}	٧	
OPERATING TEMPERATURE	Topr	LCM-S	0	50	ċ	
OPERATING TEMPERATURE	торі	LCM-H	-20	70	့	
STORAGE TEMPERATURE	Tota	LCM-S	-20	70	့	
STORAGE TEMPERATURE	Tstg	LCM-H	-30	8 5	Ç	

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