UNCONTROLLED DOCUMENT

SC:1

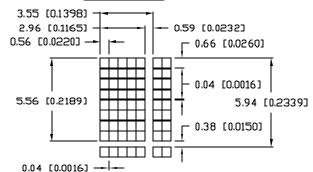
PART NUMBER

LCM-U01602DSF/A

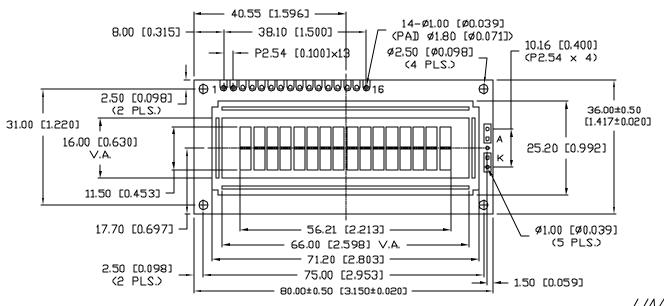
PRELIMINARY IN P/N DIR

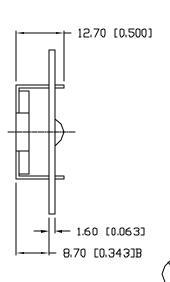
REV.

CHARACTER DETAIL



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





*UNIESS OTHERWISE SPECFED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). NN=+DECIMAL PRECISION WAX.=+0.00 (±0.030), XXX=±0.127 (±0.005).

290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 US WEB: www.lumex.com TW WEB: www.lumex.com.tw

LCM-U01602DSF/A

PART NUMBER

5.56mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX, STN, TRANSFLECTIVE WITH LED BACKLIGHT, -30 TO 80 OP. TEMP, 16 x 2 LCD MODULE, 1/16 DUTY, 1/5 BIAS.

REV.

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RELIABILITY NOTE

OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

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CHECKED BY:

APPROVED BY:

DATE: 07.07.08 PAGE: 1 OF 2 SCALE: N/A

SC:1

PART NUMBER

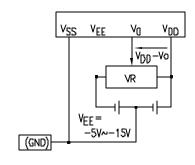
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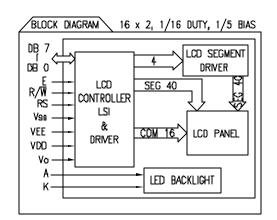
PIN CONFIGURATION

REV.

/		\						
PIN NO.	SYMBOL	LEVEL	FUNCTION					
1	Ves	-		GND (OV)				
2	V _{DD}	-	POWER SUPPLY 5V	5V				
3	Vo	-		FOR LCD DRIVE				
4	RS	H/L	REGISTER SELECT SIGNAL					
			H: DATA INPUT					
			L: INSTRUCTION INPUT					
5	R/W	H/L	H: DATA READ (MODULE>MPU)					
			L: DATA WRITE (MODULE <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	-	ANODE	LED BACKLIGHT				
16	K	_	CATHODE	LED BACKLIGHT				



 V_{DD} -Vo: LCD DRIVING VOLTAGE VR: 10K Ω -20K Ω



VEE IS EXTERNALY SUPPLIED BY USER.

LCM-S

ELECTRICAL CHARACTERISTICS VDD=4.7V to 5.3V, TA=25°C								
ITEM			SYMBOL	CONDITION	STANDARD VALUE			UNIT
					MIN.	TYP.	MAX.	וואוו
SUPPLY VOLTAGE FOR LOGIC			NDD-Aea	I	-	5.0	-	٧
SUPPLY CURRENT FOR LOGIC			100	∨ _{DD} =5∨	_	2.0	3.0	mA
INPUT VOLTAGE HIGH LOW		> <mark>∃</mark>	I	2.2	1	۷DD	٧	
		V_{IL}	-	0	-	0.6	٧	
OUTPUT VOLTAGE HIGH LOW		Voн	_	2.4	-	_	٧	
		Vol	_	_	-	0.4	٧	
LED BACKLIGHT	VOLTAGE		Vf	If=130mA	_	4.2	4.6	٧
	CURRENT		lf	-	_	130	195	mA
	POWER CUNSUMPTION		PD	130	_	B 97	_	mW
	LUMINOUS		L	If=130mA	70	-	_	cd/m²
	COLOR		孕	lf=130mA	_	570	_	nm

/ ADJULUIL MAXIMUM IXIIINUJ \							
ITEM	SYMBOL	TEST	STANDARD VALUE		UNIT		
LITEM .	SIMDUL	CONDITION	MIN	MAX	UNII		
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -Vss	Ta=25°C	-0.3	7.0	٧		
SUPPLY VOLTAGE FOR LCD DRIVE	VDD-Vo	Ta=25°C	6.0	7.2	٧		
INPUT VOLTAGE	٧١	Ta=25°C	Vss	ν _{DD}	٧		
OPERATING TEMPERATURE	Tapr	LCM-S	-30	8D	Ċ.		

Tstq

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-40

part number LCM—U01602DSF/A

5.56mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX, STN.
TRANSFLECTIVE WITH LED BACKLIGHT, -30 TO 80 OP. TEMP,
16 x 2 LCD MODULE, 1/16 DUTY, 1/5 BIAS.

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RELIABILITY NOTE

Our nany years of experience data accumulation indicate that solder heat is a major cause of early and future failure. Please pay attention to your soldering process.



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DRAWN BY:

ARSOLLITE MAYIMLIM PATINGS

STORAGE TEMPERATURE

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85

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