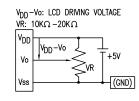


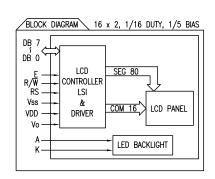
## UNCONTROLLED DOCUMENT

PART NUMBER LCM-S01602DSF/C

REV. E.C.N. NUMBER AND REVISION COMMENTS DATE SEE PAGE 1.

PIN	CONFIGURA	ATION						
PIN NO.	SYMBOL	LEVEL	FUNCTION					
1	$V_{DD}$	-		5V				
2	Vss	-	POWER SUPPLY	GND (OV)				
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.				





ELECTRICAL CHARACTERISTICS V <sub>DD</sub> =4.7V to 5.3V, T <sub>A</sub> =25°C									
ITEM		SYMBOL	CONDITION	STANDARD VALUE			UNIT		
IIEM				MIN.	TYP.	MAX.	UNII		
SUPPLY VOLTAGE FOR LOGIC			V <sub>DD</sub> -Vss	-	-	5.0	-	٧	
SUPPLY CURRENT FOR LOGIC			I <sub>DD</sub>	V <sub>DD</sub> =5V	-	2.0	3.0	mA	
INPUT VOLTAGE HIGH LOW		٧ <sub>IH</sub>	ı	2.2	-	۷DD	٧		
		٧ <sub>IL</sub>	ı	0	-	0.6	٧		
OUTPUT VOLTAGE HIGH LOW		VOH	-	2.4	_	-	٧		
		LOW	V <sub>OL</sub>	-	-	-	0.4	٧	
LED BACKLIGHT	VOLTAGE		Vf	If=160mA	-	4.2	4.6	٧	
	CURRENT		lf	-	-	160	-	mA	
	POWER CUNSUMPTION		PD	-	-	656	-	mW	
	LUMINOUS		Ĺ	lf=160mA	70	-	-	cd/m <sup>2</sup>	
	COLOR		-	_	-	-	-	nm	

ABSOLUTE MAXIMUM RATINGS								
ITFM	SYMBOL	TEST	STANDARD VALUE		UNIT			
IIEM		CONDITION	MIN	MAX	OINII			
SUPPLY VOLTAGE FOR LOGIC	VDD-Vss	Ta=25*C	4.7	5.3	٧			
SUPPLY VOLTAGE FOR LCD DRIVE	VDD-Vo	-	4.2@50°C	4.8@0°C	٧			
INPUT VOLTAGE	٧١	Ta=25*C	Vss	۷ <sub>DD</sub>	٧			
OPERATING TEMPERATURE	Topr	LCM-S	0	50	•C			
STORAGE TEMPERATURE	Tstg	LCM-S	-20	70	.c			

REV.

Α

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION MAX. = +0.00 (±0.001), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION MAX. = +0.00 (±0.001), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.003). MIN= +DECIMAL PRECISION MAX. = +0.00 (±0.001), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.003). MIN= +DECIMAL PRECISION MAX. = +0.00 (±0.001), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.003). MIN= +DECIMAL PRECISION MAX. = +0.00 (±0.001), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.003). MIN= +DECIMAL PRECISION MAX. = +0.00 (±0.001), X.XXX=±0.127 (±0.005). MIN= +0.00 (±0.001), X.XXX=±0.001 (±0.001), X.XX=±0.001 (±0.001), X.XX=±0.001 (±0.001), X.XX=±0.001 (±0.001), X.XX=±0.001 (±0.001), X.XX=±0.001 (±0.001), X.XX=±0.001 (±0.001)

PART NUMBER REV. LCM-S01602DSF/C Α

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

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SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE.

PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

DRAWN BY:

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CHECKED BY: APPROVED BY: DATE: 10.30.01 PAGE: 1 OF 2 <u>N</u>/A SCALE: СТ