

UNCONTROLLED DOCUMENT

PART NUMBER

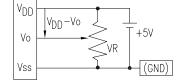
REV.

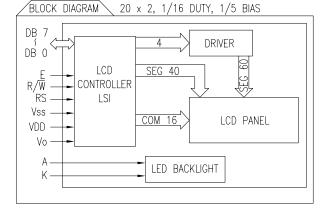
LCM-S02002DSF

/	PIN	CONFIGURATION	
/	1 11 1	CONTROUMATION	

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

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





ELECTRICAL CHARACTERISTICS V_{DD} =4.7V to 5.3V, T _A =25°C								
ITEM		SYMBOL	CONDITION	STANDARD VALUE			UNIT	
				CONDITION	MIN.	TYP.	MAX.	
SUPPLY VO	SUPPLY VOLTAGE FOR LOGIC		V _{DD} -Vss	-	-	5.0	-	V
SUPPLY CURRENT FOR LOGIC		I _{DD}	V _{DD} =5V	-	2.0	3.0	mA	
	INPUT VOLTAGE HIGH LOW		VIH	-	2.2	-	VDD	V
INPUT VOLT			VIL	-	0	-	0.6	V
	OUTPUT VOLTAGE HIGH LOW		V _{OH}	-	2.4	-	-	V
OUTPUT VO			V _{OL}	-	-	-	0.4	V
	VOLTAGE		Vf	lf=210mA	-	4.2	4.6	V
*LED BACKLIGHT	CURRENT		lf	-	-	210	-	mA
	POWER CUNSUMPTION		PD	-	-	882	-	mW
	LUMINOUS		L	lf=210mA	70	-	-	cd/m²
	COLOR		_	_	-	-	_	nm

ABSOLUTE MAXIMUM RATINGS ackslash

	TEST	STANDAR	D VALUE	UNIT	
STWDUL	CONDITION	MIN	MAX		
VDD-Vss	Ta=25°C	4.7	5.3	٧	
VDD-No	-	4.2@50°C	4.8@0°C	٧	
٧I	Ta=25°C	Vss	V _{DD}	V	
Topr	-	0	50	°C	
Tstg	-	-20	70	°C	
	V _{DD} -Vo V _I Topr	SYMBOL CONDITION VDD-Vss Ta=25°C VDD-Vo - V1 Ta=25°C Topr -	SYMBOL CONDITION MIN VDD-Vss Ta=25°C 4.7 VDD-Vo - 4.2@50°C V1 Ta=25°C Vss Topr - 0	SYMBOL CONDITION MIN MAX VDD-Vss Ta=25°C 4.7 5.3 VDD-Vo - 4.2@50°C 4.8@0°C V1 Ta=25°C Vss VDD Topr - 0 50	

 $UNCONTROLLED \ DOCUMENT$ *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 -DECIMAL PRECISION

REV.	part number LCM—S02002DSF	CONFIDENTIAL INFORMATION THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.	LUM Creating LED and LCD Solution	PAL PHC US	E. HELEN ROA ATINE, IL 600 NE: +1.847.35 WEB: www.lume WEB: www.lume	67—6976 9.2790 x.com
	5.55mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX, 20 x 2 LCD MODULE, 1/16 DUTY, 1/5 BIAS, STN, TRANSFLECTIVE, LED BACKLIGHT.	IN PART FROM DISCUSSIONE AND DISCUMINATION TO ALL THIRD PARTIES. <u>RELIABILITY NOTE</u> 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.	DRAWN BY: JN	CHECKED BY:		

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