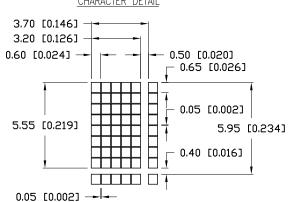
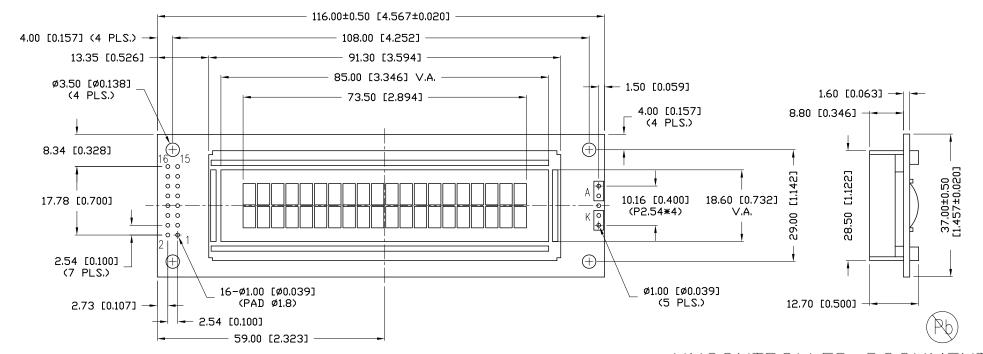
## LCM-S02002DSF-Y



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





\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.XX=±0.5 (±0.020), X.XXX=±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-Y

5.55mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX, 20 x 2 LCD MODULE, 1/16 DUTY, 1/5 BIAS, YELLOW STN, TRANSFLECTIVE, LED BACKLIGHT.

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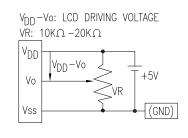
CHECKED BY: APPROVED BY: DATE: 11.07.07 DRAWN BY:

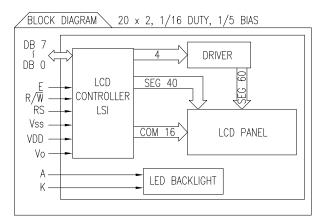
SCALE:

PAGE: 1 OF 2 N/A

## LCM-S02002DSF-Y

PIN	CONFIGURA	ATION \					
PIN NO.	SYMBOL	LEVEL	FUNCTION				
1	Vss	-		GND (OV)			
2	$V_{\mathrm{DD}}$	-	POWER SUPPLY	5V			
3	Vo	_		FOR LCD DRIVE			
	RS	H/L	REGISTER SELECT SIGNAL				
4			H: DATA INPUT				
			L: INSTRUCTION INPUT				
5	R/W	H/L	H: DATA READ (MODU				
			L: DATA WRITE (MODU	JLE <mpu)< td=""></mpu)<>			
6	Е	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 $5.3V$ , $T_A =$	25°C
ITFM	SYMBOL	CONDITION	STA
IIEW	31MIDUL	CONDITION	MIN.
SUPPLY VOLTAGE FOR LOGIC	V <sub>DD</sub> -Vss	-	_

16

ANODE

CATHODE

ITEM		SYMBOL	CONDITION	STANDARD VALUE			LINIT	
			CONDITION	MIN.	TYP.	MAX.	UNIT	
SUPPLY VOLTAGE FOR LOGIC		V <sub>DD</sub> -Vss	_	_	5.0	-	V	
SUPPLY CURRENT FOR LOGIC		lDD	V <sub>DD</sub> =5V	-	2.0	3.0	mΑ	
INPUT VOLTAGE HIGH LOW		٧ <sub>H</sub>	_	2.2	-	VDD	٧	
		LOW	٧ <sub>IL</sub>	_	0	_	0.6	V
OUTPUT VOLTAGE HIGH LOW		V <sub>OH</sub>	=	2.4	_	_	V	
		LOW	V <sub>OL</sub>	_	_	_	0.4	V
*LED BACKLIGHT	VOLTAGE		Vf	lf=210mA	_	4.2	4.6	V
	CURRENT		lf	_	-	210	_	mΑ
	POWER CUNSUMPTION		PD	_	-	882	_	mW
	LUMINOUS		L	lf=210mA	70	_	_	cd/m²
	COLOR		_	_	_	_	_	nm

LED BACKLIGHT

LED BACKLIGHT

## ABSOLUTE MAXIMUM RATINGS

ITFM	SYMBOL	IE21	STANDARD VALUE		UNIT	
TIEW	STWIDOL	CONDITION	MIN	MAX	OINII	
SUPPLY VOLTAGE FOR LOGIC	VDD-Vss	Ta=25°C	4.7	5.3	V	
SUPPLY VOLTAGE FOR LCD DRIVE	VDD-Vo	_	4.2@50°C	4.8@0°C	V	
INPUT VOLTAGE	٧ <sub>I</sub>	Ta=25°C	Vss	V DD	٧	
OPERATING TEMPERATURE	Topr	-	0	50	.C	
STORAGE TEMPERATURE	Tstg	_	-20	70	.C	

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REV. PART NUMBER LCM-S02002DSF-Y

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