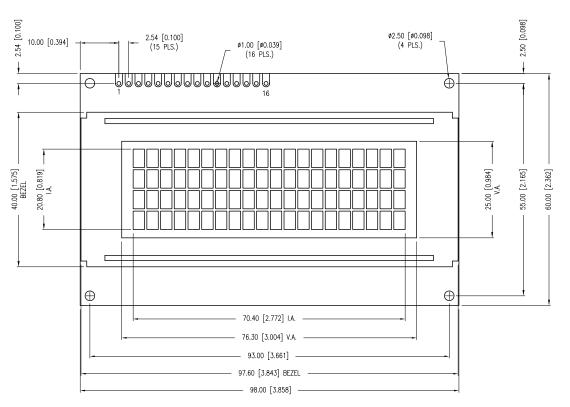
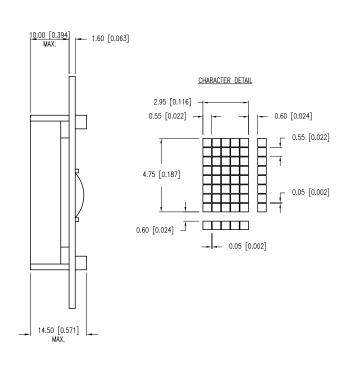
UNCONTROLLED DOCUMENT

PART NUMBER	LCR-H02004DSF-Y	REV.	А
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
12.19.11	E.C.N. #11767.		Α

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





A NOTES:

1. PROTECTIVE TAPE TO BE SUPPLIED WITH BLUE GRIPPER TAB.

*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= $^{+DECIMAL}_{-0.00}$ PRECISION MAX.= $^{+0.00}_{-0.00}$ MAX.= $^{+0.00}_{-0.00}$ 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= $^{+DECIMAL}_{-0.00}$ PRECISION MAX.= $^{+0.00}_{-0.00}$ PRECISION M FAX: +1.847.359.6538

Creating LED and LCD Solutions Together™

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20 x 4 CHARACTER LCD MODULE, STN YELLOW, TRANSFLECTIVE, LED BACKLIGHT, 6:00 VIEW.

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

CONFIDENTIAL INFORMATION

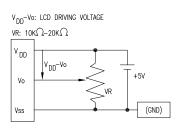
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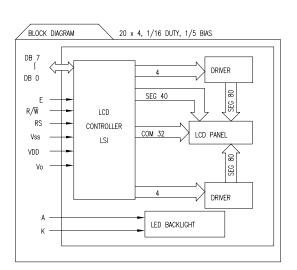
UNCONTROLLED DOCUMENT DATE: 05.17.10 DRAWN BY: JH PAGE: 1 OF 2 CHKD BY: SS SCALE: NTS APRVD BY: JD mm [INCH] (Pb) UNIT:

PART NUMBER	LCR-H02004DSF-Y	REV.	А
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PIN C	ONFIGURATION					
PIN NO.	SYMBOL	LEVEL	FUNCTION			
1	Vss	-		GND (OV)		
2	V DD	-	POWER SUPPLY 5	5V		
3	Vo	-		FOR LCD DRIVE		
4	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT			
5	R/₩	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	A	-	ANODE	LED BACKLIGHT		
16	К	-	CATHODE	LED BACKLIGHT		

ELECTRICAL (CHARACTERISTICS		V _{DD} =4.	7V to 5.3V, T _A =25°C				
			SYMBOL	CONDITION	STANDARD VALUE			UNIT
ITEM		MIN.			TYP.	MAX.	UNIT	
SUPPLY VOLTAGE FOR LOGIC			V _{DD} -Vss	-	-	5.0	-	٧
SUPPLY CURRENT FOR LOGIC			I DD	V _{DD} =5V	-	2.0	3.0	mA
			V IH	-	2.2	-	V DD	٧
INPUT VOLTAGE LOW		LOW	V IL	-	0	-	0.6	٧
		V OH	l _{OH} =−0.205mA	2.4	-	-	٧	
OUTPUT VOLTAGE		LOW	V OL	I _{OL} = 1.6ma	-	-	0.4	٧
	VOLTAGE		Vf	If=300mA	-	4.2	4.5	٧
150	POWER CUNSUMPTIO		If	-	-	300	600	mA
LED			PD	-	_	1260	-	mW
BACKLIGHT	LUMINOUS		L	If=300mA	70	-	-	cd/m ²
	COLOR		-	_	-	-	-	nm





ABSOLUTE MAXIMUM RATINGS					
ІТЕМ	CMAROL	TEST	STANDAR	D VALUE	UNUT
	SYMBOL	CONDITION	MIN	MAX	UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -Vss	Ta=25*C	4.7	5.3	٧
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -Vo	-	4.2@50°C	4.8@0°C	٧
INPUT VOLTAGE	v _I	Ta=25*C	Vss	V _{DD}	٧
OPERATING TEMPERATURE	Topr	-	-20	70	·c
STORAGE TEMPERATURE	Tstg	-	-30	80	•c

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 2 OF 2
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