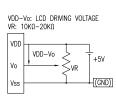
PART NUMBER	LCM-H02002DSF	REV.	А
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
11.16.12	E.C.N. #10BRDR. & REDRAWN.		Α

Α

/ PIN CC	NFIGURATION					
PIN NO.	SYMBOL	LEVEL	FUNCTION			
1	Vss	-		GND (OV)		
2	VDD	=	POWER SUPPLY	5V		
3	Vo	-		FOR LCD DRIVE		
			REGISTER SELECT SIGNAL			
4	4 RS	H/L	H: DATA INPUT			
			L: INSTRUCTION INPUT			
-	R/W	11.6	H: DATA READ (MODULE>MPU)			
5 R/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	А	-	ANODE	LED BACKLIGHT		
16	K	1	CATHODE	LED BACKLIGHT		



DB7 S	-		1	
DB 0 E		LCD CONTROLLER LSI	4 SEG 40	DRIVER
А ——— К ———			LED BACKLIGHT	

ELECTRICAL CH.	ARACTERISTI	cs	Voc	=4.7V to 5.3V, Ta=2	5°C				
ITEM		SYMBOL	CONDITION	STANDARD VALUE			UNIT	APPLICABLE	
				MIN	TYP	MAX	UNII	TERMINAL	
SUPPLY VOLTAGE FOR LOGIC		VDD-Vss	-	-	5.0	-	٧	VDD	
SUPPLY CURRENT	SUPPLY CURRENT FOR LOGIC		IDD	VDD=5V	-	2.0	3.0	mA	VDD
INDUT VOLTAGE	INPUT VOLTAGE HIGH LOW		ViH	-	2.2	-	VDD	٧	RS,R/W,E
INFOI VOLIAGE			VIL	-	0	-	0.6	٧	DB0~DB7
OUTDUT VOLTAGE	OUTPUT VOLTAGE HIGH LOW		Voн	^I 0H=-0.205mA	2.4	-	-	٧	DB0~DB7
OUTPUT VOLTAGE			VoL	^I OL=1.6ma	-	-	0.4	٧	RS,R/W,E
	VOLTAGE		Vf	If=210mA	-	4.2	4.6	٧	
LED BACKLIGHT	CURRENT		If	=	-	210	275	mA	
	POWER CONSUMPTION		PD	-	-	1279	-	mW	
	LUMINOUS		L	lf=210mA	70	-	-	cd/m²	
	COLOR	COLOR		-	-	-	-	nm	

SYMBOL	TEST CONDITION	STANDAR	LIMIT	
		MIN	MAX	UNIT
VDD-Vss	Ta=25*C	4.7	5.3	٧
VDD	-	4.2@50°C	4.8@0°C	٧
VI	-	Vss	VDD	٧
Topr	LCM-H	-20	70	.c
Tstg	LCM-H	-20	85	•c
	VDD-Vss VDD VI Topr	SYMBOL CONDITION	SYMBOL CONDITION MIN Vb0-Vss Ta=25°C 4.7 Vb0 - 4.2@50°C Vi - Vss Topr LCM-H -20	SYMBOL CONDITION MIN MAX

*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= $^{+0.00}_{-0.00}$ PRECISION MAX.= $^{+0.00}_{-0.00}$ PRECISION MAX.= $^{+0.00}_{-0.00}$ PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= $^{+0.00}_{-0.00}$ PRECISION MAX.= $^{+0.00}_{-0$ UNCONTROLLED DOCUMENT



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425 N. GARY AVB.55mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX, 20 x 2 CHARACTER LCD MODULE, STN, GREY, TRANSFLECTIVE, 1/16 DUTY, 1/5 BIAS PAGE: 2 OF 2 DRAWN BY: MA PAGE: 2 OF 2 CHKD BY: SS SCALE: NTS APRVD BY: SS (Pg) UNIT: mm [INCH]

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