

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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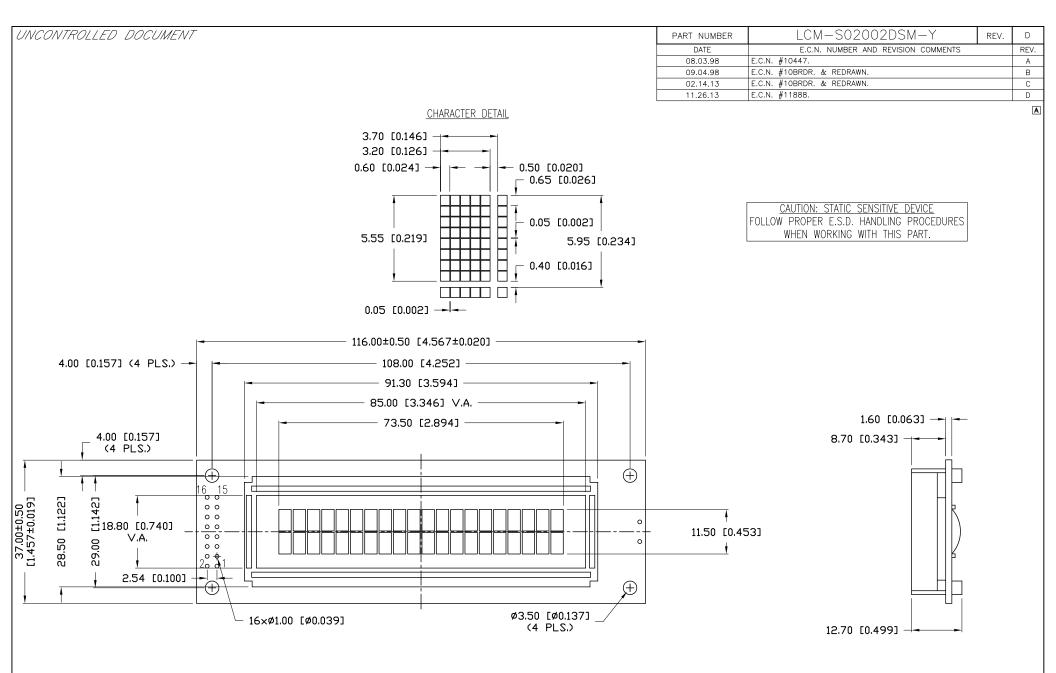
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5.55mmCHARACTER HEIGHT,5x8 DOT MATRIX,20x2 LCD MODULE1/16 DUTY,1/5 BIAS,STN TRANS YELLOW BACKLIGHT

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

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PART NUMBER	LCM-S02002DSM-Y	REV.	D
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
08.03.98	E.C.N. #10447.		Α
09.04.98	E.C.N. #10BRDR. & REDRAWN.		В
02.14.13	E.C.N. #10BRDR. & REDRAWN.		С
11.26.13	E.C.N. #11888.		D

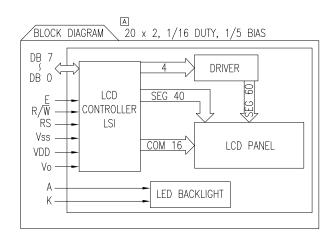
PIN CONFIGURATION

PIN NO.	SYMBOL	LEVEL	FUNCTION			
1	Vss	-	GND (OV)			
2	V_{DD}	_	POWER SUPPLY	5V		
3	Vo	_		FOR LCD DRIVE		
			REGISTER SELECT SIGNAL			
4	RS	H/L	H: DATA INPUT			
			L: INSTRUCTION INPU	Γ		
5	R∕₩	H/L	H: DATA READ (MODU			
3			L: DATA WRITE (MODU	JLE <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	Α	_	ANODE	LED BACKLIGHT		
16	K	_	CATHODE	LED BACKLIGHT		

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

VDD
VDD-Vo
VSS

VR
(GND)



ELECTRICAL CHARACTERISTICS

 $V_{DD} = 4.7V$ to 5.3V, $T_A = 25^{\circ}C$

/ ELECTRIC	AL CHARAC	IEKIZIICZ /	V_{DD} =4.7V to 5.3V, I_A =25°C					
ITFM	ITEM		SYMBOL	CONDITION	STANDARD VALUE			UNIT
				CONDITION	MIN.	TYP.	MAX.	UNII
SUPPLY VOLTAGE FOR LOGIC			V _{DD} -Vss	-	4.5	5.0	5.5	٧
SUPPLY CURRENT FOR LOGIC			l _{DD}	V _{DD} =5V	ı	2.0	3.0	mΑ
	INPUT VOLTAGE HIGH LOW		٧ _{IH}	_	2.2	_	VDD	٧
INPUT VOLT			V _{IL}	-	0	_	0.6	٧
	OUTPUT VOLTAGE		V _{OH}	=	2.4	-	-	٧
OUTPUT VO			V _{OL}	-	-	-	0.4	٧
	VOLTAGE CURRENT		Vf	lf=210mA	-	4.2	4.6	٧
*IFD			lf	_	-	210	-	mΑ
BACKLIGHT	POWER CUNSUMPTION		PD	_	-	882	-	mW
DACKLIGHT	LUMINOUS COLOR		L	lf=210mA	110	170	_	cd/m ²
			_	_	-	570	-	nm

ABSOLUTE MAXIMUM RATINGS	A				
ITEM	SYMBOL	TEST	STANDARD VALUE		UNIT
ITEM	SIMPOL	CONDITION	MIN	MAX	UNII
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	٧ _I	Ta=25°C	Vss	v DD	٧
OPERATING TEMPERATURE	Topr	_	0	50	.C
STORAGE TEMPERATURE	Tstg	-	-20	70	.C

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: $X=\pm 1$ (±0.039), $X.X=\pm 0.5$ (±0.020), $X.XX=\pm 0.5$ (±0.010), $X.XXX=\pm 0.127$ (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= $\begin{array}{c} +0.00 \\ -0.00 \end{array}$ PRECISION MAX.= $\begin{array}{c} +0.00 \\ -0.000 \end{array}$ MAX.= $\begin{array}{c} +0.00 \\ -0.000 \end{array}$ PRECISION MAX.= $\begin{array}{c} +0.00 \\ -0.000 \end{array}$



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