

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!



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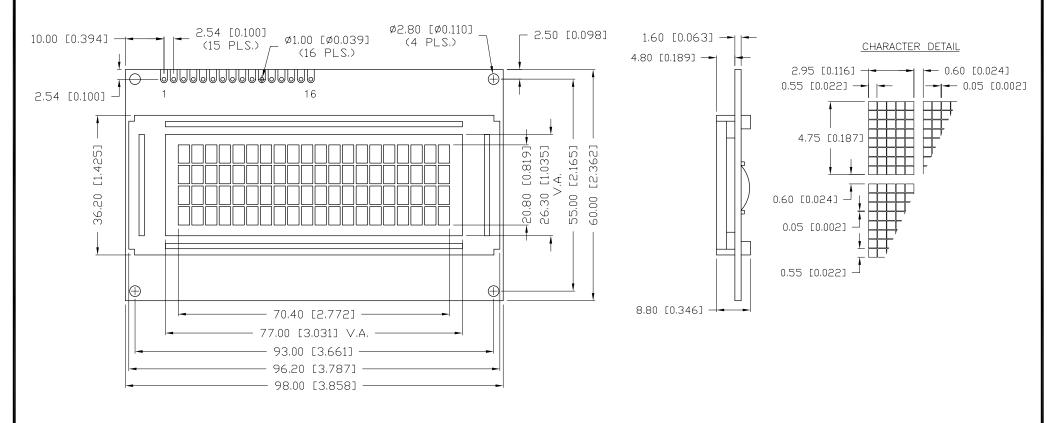






LCM-S02004DSR

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



UNCONTROLLED DOCUMENT

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

rev. part number LCM—S02004DSR

4.75mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX, 20 x 4 LCD STN, REFLECTIVE, 1/16 DUTY, 1/5 BIAS.

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RELIABILITY NOTE
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.



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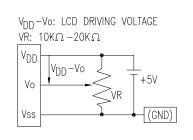
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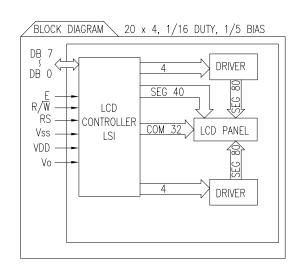
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LCM-S02004DSR

PIN	CONFIGURA	ATION \							
PIN NO.	SYMBOL	LEVEL	FUNCTION						
1	Vss	-		GND (OV)					
2	V_{DD}	_	POWER SUPPLY	R 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 (MODULE>MPU)						
			L: DATA WRITE (MODULE <mpu)< td=""></mpu)<>						
6	Е	H,H->L	ENABLE						
7~14	DB0~DB7	H/L	DATA BUS-SOFTWARE	SELECTABLE 4 OR 8 BIT MODE.					
15	NC	-							
16	NC	_							

ELECTRICAL CHARACTERISTICS V _{DD} =4.7V to 5.3V, T _A =25°C									
ITEM		SYMBOL	CONDITION	STAN	UNIT				
				MIN.	TYP.	MAX.	UNIT		
SUPPLY VOLTAGE FOR LOGIC		V _{DD} -Vss	-	-	5.0	_	V		
SUPPLY CURRENT FOR LOGIC		IDD	V _{DD} =5V	_	2.0	3.0	mΑ		
	HIGH	V _{IH}	-	2.2	_	VDD	V		
INPUT VOLTAGE	LOW	V _{IL}	_	0	_	0.6	V		
	HIGH	V _{OH}	I _{OH} =-0.205mA	2.4	_	-	V		
OUTPUT VOLTAGE	LOW	V _{OL}	I _{OL} =1.6ma	-	-	0.4	V		





ABSOLUTE MAXIMUM RATINGS									
ITFM	SYMBOL	TEST	STANDARD VALUE		UNIT				
II LWI		CONDITION	MIN	MAX	OIVII				
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	٧١	Ta=25°C	Vss	V DD	V				
OPERATING TEMPERATURE	Topr	LCM-S	0	50	.C				
STORAGE TEMPERATURE	Tstg	LCM-S	-20	70	.C				

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PART NUMBER REV. ICM-S02004DSR

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