## imall

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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





CONTROLLED DOCUMENT		PART NUMBER	LCM-S01602DSR/A REV	. A
		DATE	E.C.N. NUMBER AND REVISION COMMENTS	REV.
		03.02.11	E.C.N. #10BRDR. & REDRAWN.	A
	CHARACTER DETAIL   2.96 [0.1165]   0.56 [0.0220]   0.56 [0.0220]   0.56 [0.0220]   0.56 [0.0220]   0.66 [0.0260]   0.04 [0.0016]   0.04 [0.0016]	[ ].2339] [	CAUTION: STATIC SENSITIVE DEVICE FOLLOW PROPER E.S.D. HANDLING PROCEDURES WHEN WORKING WITH THIS PART.   P/N PREFIX/SUFFIX TABLE   UM-X DXX DESCRIPTION   STANDARD S SR STN, REFLECTIVE   STANDARD S SF STN, TRANSFLECTIVE(W/ BACKLIGHT)   HIGH TEMP. H TR TN, REFLECTIVE   MICH TEMP. H TR TN, TRANSFLECTIVE(W/ BACKLIGHT)	
8.00 [0.315] - 2.00 [0.079] 2.50 [0.098] 31.00 [1.220] 16.00 [0.630] V.A. 11.50 [0.453] 17.70 [0.697] 2.50 [0.098] (2 PLS.) 2.50 [0.098] (2 PLS.) 2.50 [0.098] (2 PLS.) 2.50 [0.098] (2 PLS.)		£ ±0.50 ±0.0201	NO BACKLIGHT 8.8 4.8	

\*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.XX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN = +DECIMAL PRECISION MAX.= +0.00 -0.00

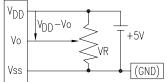
290 E. HELEN ROAD	5.56mm CHARACTER HEIGHT, 5x8 DOT MATRIX,	DATE:	03.02.11	DRAWN BY:	AB
ALATINE, IL 60067-6976 PHONE: +1.847.359.2790	**THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.**	PAGE:	1 OF 2	CHKD BY:	SS
AX: +1.847.359.6538 WEB: WWW.LUMEX.COM	CONFIDENTIAL INFORMATION THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL	SCALE:	NTS	APRVD BY:	KF
MEMBER OF ITW PHOTONICS GROUP		UNIT:	mm [INCH]	(Pb)	

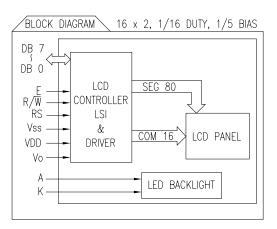
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## PIN CONFIGURATION

4					
PIN NO.	SYMBOL	LEVEL	FUNCTION		
1	Vss	_		GND (OV)	
2	V <sub>DD</sub>	_	POWER SUPPLY	5V	
3	Vo	_		FOR LCD DRIVE	
			REGISTER SELECT SIG	NAL	
4	4 RS H/L H: DATA INPUT				
			L: INSTRUCTION INPUT		
5 R/W H/I H: DATA READ (MODULE>MPU)					
5	R/W	H/L	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	А	-	ANODE	LED BACKLIGHT	
16	K	-	CATHODE	LED BACKLIGHT	

V<sub>DD</sub>-Vo: LCD DRIVING VOLTAGE VR: 10KΩ -20KΩ





ELECTRIC	AL CHARAC	reristics \	V <sub>DD</sub> =	4.7V to 5.3V, T <sub>A</sub> =	25°C				
ITEM				CONDITION	STAN	STANDARD VALUE			
TIEN			SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
SUPPLY VO	LTAGE FOR	LOGIC	V <sub>DD</sub> -Vss	-	-	5.0	-	V	
SUPPLY CU	IRRENT FOR	LOGIC	IDD	V <sub>DD</sub> =5V	-	2.0	3.0	mA	
		HIGH	VIH	-	2.2	-	VDD	V	
INPUT VOLT	AGE	LOW	VIL	-	0	-	0.6	V	
		HIGH	V <sub>OH</sub>	-	2.4	-	-	V	
OUTPUT VO	LTAGE	LOW	V <sub>OL</sub>	-	-	-	0.4	V	
	VOLTAGE		Vf	lf=160mA	-	4.2	4.6	V	
*I FD	CURRENT		lf	-	-	160	-	mA	
BACKLIGHT	POWER CUNSUMPTION		PD	-	-	656	-	mW	
			L	lf=160mA	70	-	-	cd/m²	
	COLOR		-	_	-	-	-	nm	

\*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS	\ \					
ITEM	CVUDOL	TEST	STANDAR	d value	UNIT	
IIEM	SYMBOL	CONDITION	MIN MAX			
SUPPLY VOLTAGE FOR LOGIC	VDD-Vss	Ta=25°C	4.7	5.3	V	
SUPPLY VOLTAGE FOR LCD DRIVE	VDD-No	-	4.2@50°C	4.8@0°C	V	
INPUT VOLTAGE	٧I	Ta=25°C	Vss	V <sub>DD</sub>	V	
OPFRATING TEMPERATURE	Topr	LCM-S	0	50	°C	
OFERATING TEMFERATORE	Topr	LCM-H	-20	70	°C	
STORAGE TEMPERATURE	T-1-	LCM-S	-20	70	°C	
STORAGE TEMPERATORE	Tstg	LCM-H	-30	85	°C	

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