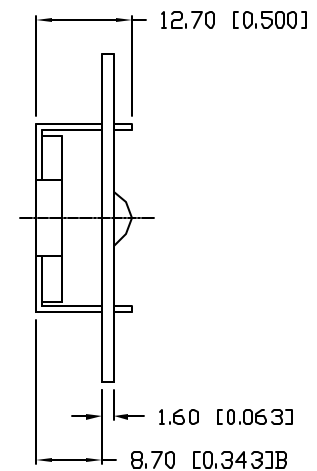
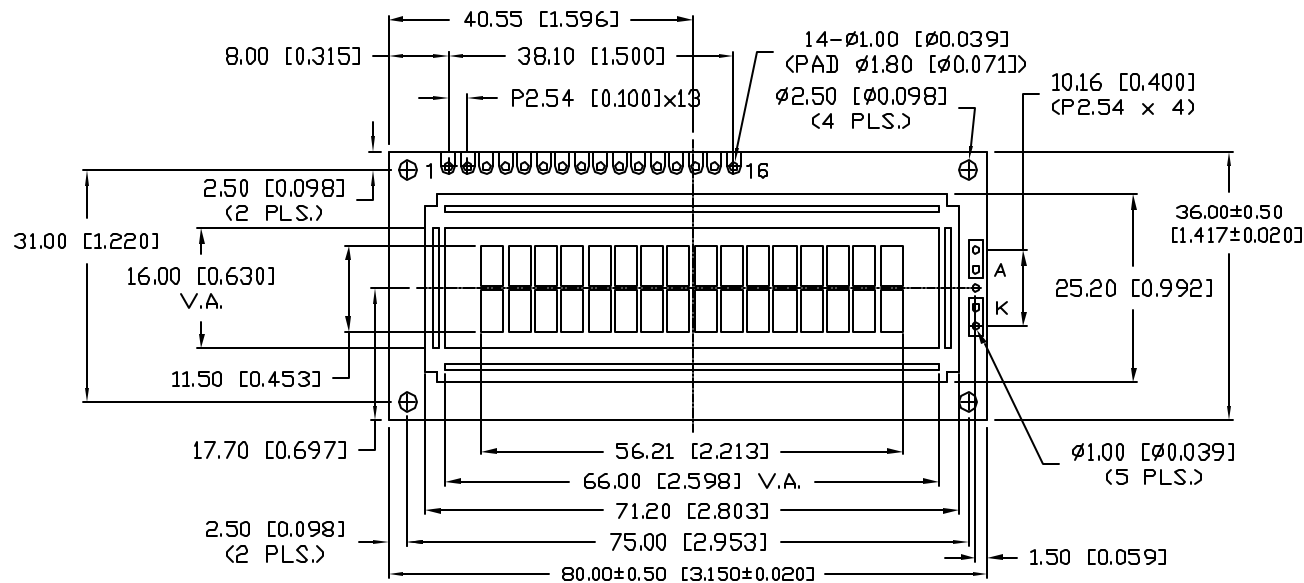
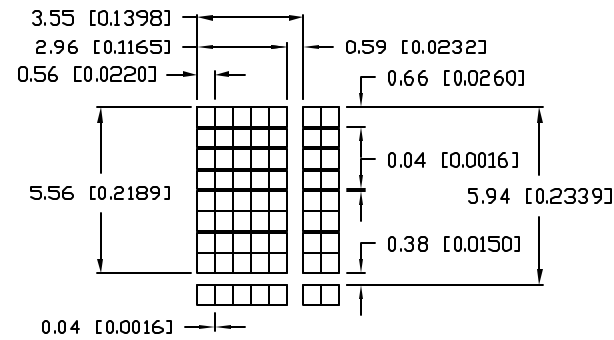


LCM-U01602DSF/A

PRELIMINARY IN P/N DIR

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

CHARACTER DETAIL



*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.= +DECIMAL PRECISION -0.00 MAX.= +0.00 -DECIMAL PRECISION

UNCONTROLLED DOCUMENT

REV.

PART NUMBER

LCM-U01602DSF/A

5.56mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX, STN,
TRANSFLECTIVE WITH LED BACKLIGHT, -30 TO 80 OP. TEMP,
16 x 2 LCD MODULE, 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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PAGE: 1 OF 2

SCALE: N/A

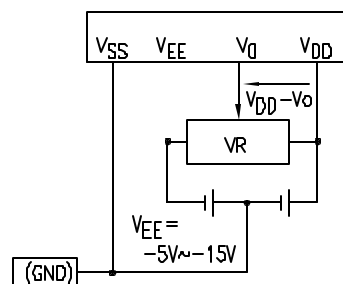
JIN

LCM-U01602DSF/A

PRELIMINARY IN P/N DIR

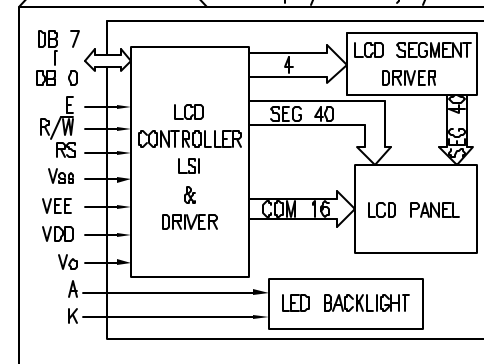
PIN CONFIGURATION

PIN NO.	SYMBOL	LEVEL	FUNCTION
1	V _{SS}	—	POWER SUPPLY
2	V _{DD}	—	
3	V _O	—	
4	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT
5	R/W	H/L	H: DATA READ (MODULE→MPU) L: DATA WRITE (MODULE←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
16	K	—	CATHODE



V_{DD}-V_O: LCD DRIVING VOLTAGE
VR: 10KΩ-20KΩ

BLOCK DIAGRAM 16 x 2, 1/16 DUTY, 1/5 BIAS



VEE IS EXTERNALLY SUPPLIED BY USER.

ELECTRICAL CHARACTERISTICS

V_{DD}=4.7V to 5.3V, T_A=25°C

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	—	—	5.0	—	V
SUPPLY CURRENT FOR LOGIC	I _{DD}	V _{DD} =5V	—	2.0	3.0	mA
INPUT VOLTAGE	HIGH LOW	V _{IH}	—	2.2	—	V _{DD}
		V _{IL}	—	0	—	0.6
OUTPUT VOLTAGE	HIGH LOW	V _{OH}	—	2.4	—	V
		V _{OL}	—	—	0.4	V
LED BACKLIGHT	VOLTAGE	V _f	I _f =130mA	—	4.2	4.6
	CURRENT	I _f	—	—	130	195
	POWER CONSUMPTION	PD	130	—	897	mW
	LUMINOUS	L	I _f =130mA	70	—	cd/m ²
	COLOR	λ _p	I _f =130mA	—	570	—

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
			MIN	MAX	
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	T _a =25°C	-0.3	7.0	V
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -V _O	T _a =25°C	6.0	7.2	V
INPUT VOLTAGE	V _I	T _a =25°C	V _{SS}	V _{DD}	V
OPERATING TEMPERATURE	T _{opr}	LCM-S	-30	80	°C
STORAGE TEMPERATURE	T _{stg}	LCM-S	-40	85	°C

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REV.

PART NUMBER

LCM-U01602DSF/A

5.58mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX, STN,
TRANSFLECTIVE WITH LED BACKLIGHT, -30 TO 80 OP. TEMP.
16 x 2 LCD MODULE, 1/16 DUTY, 1/5 BIAS.

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