

## UNCONTROLLED DOCUMENT

PART NUMBER
LCM-H01602DWF/C-1B

REV. E.C.N. NUMBER AND REVISION COMMENTS

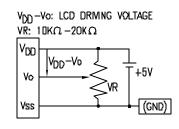
DATE

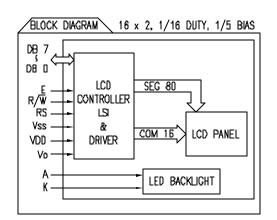
REV.

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	PIN	CONFIGUR	TGURATION				
J	ΝŊ	SYMBOL	I FV				

/		\				
PIN NO.	SYMBOL	LEVEL	FUNCTION			
1	$V_{\mathrm{DD}}$	-	POWER SUPPLY CND (OV) FOR LCD DRIVE			
2	V5S	_			POWER SUPPLY	GND (OV)
3	Vo	-				
	RS	H/L	REGISTER SELECT SIGNAL			
4			H: DATA INPUT			
			L: INSTRUCTION INPUT			
5	R∕W	H/L	H: DATA READ (MODU	LE>MPU)		
	K/W		L: DATA WRITE (MODULE <mpu)< td=""></mpu)<>			
6	E	H,H->L	ENABLE			
7~14	DBO~DB7	H/L	DATA BUS-SOFTWARE	SELECTABLE 4 OR 8 BIT MODE.		
	Α	_	ANODE	LED BACKLIGHT		
	K	_	CATHODE	LED BACKLIGHT		





ELECTRICAL CHARACTERISTICS

 $V_{DD}$ =4.7V to 5.3V,  $T_A$ =25°C

			עט					
ПЕМ			SYMBOL	CONDITION	STANDARD VALUE			UNIT
					MIN.	ΥP	MAX.	UNII
SUPPLY VOLTAGE FOR LOGIC			V <sub>DD</sub> -Vss		-	5.0	-	٧
SUPPLY CURRENT FOR LOGIC			OO <sup>I</sup>	V <sub>DD</sub> =5V	ı	2.0	3.0	mΑ
		HIGH	٧ <sub>IH</sub>	Ī	2.2	ı	4.7	>
INPUT VOLT	INPUT VOLTAGE LOW		اا	Ī	0	ı	0.6	>
	OUTPUT VOLTAGE HIGH LOW		V∂H	I	2.4	ı	ı	>
TOTALINO			۸ <sup>OL</sup>	=	-	-	0.4	٧
	VOLTAGE		Vf	lf=20mA	3.3	3.4	3.5	٧
*LED	CURRENT		lf	-	10	20	25	mA
BACKLIGHT	THE DEPONDED OF THE	INSUMPTION	PD	lf=20mA	-	53	-	mW
BACKLIGHT	COLOR		_	BLUE	_	_	-	nm

\*ONLY APPLIES TO MODULES WITH BACKLIGHT

## ABSOLUTE MAXIMUM RATINGS

/	\				
ITFM	SYMBOL	TEST	STANDARD VALUE		UNIT
IIEWI		CONDITION	MIN	MAX	ONII
SUPPLY VOLTAGE FOR LOGIC	VD[] -Vas	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 <sub>I</sub>	Ta=25°C	Vss	ν <sub>DD</sub>	٧
OPERATING TEMPERATURE	Торг	LCM-H	-20	70	'C
STORAGE TEMPERATURE	Tstg	LCM-H	-30	80	Ç

\*UNLESS OTHERWISE SPECIFED 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). NN =  $\frac{+0000}{-0.00}$  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). NN =  $\frac{+00000}{-0.00}$  PRECISION

REV.

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16 x 2 CHARACTERS LCD MODULE, TOP VIEW, FSTN, TRANSFLECTIVE, ONE CHIP BLUE LED BACKLIGHT, 1/16 DUTY, 1/5 BIAS, WIDE OPERATING TEMP.

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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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SCALE: N/A

JC

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