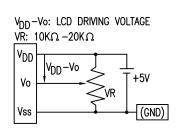


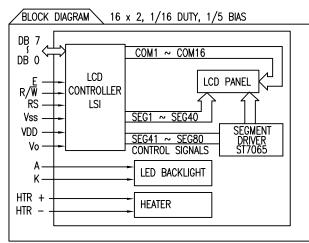
LCR-U02002DSF-WH

PIN CONFIGURATION

PIN NO.	SYMB0L	LEVEL	FUNCTION					
1	Vss	-		GND (OV)				
2	V_{DD}	-	POWER SUPPLY	5V				
3	Vo	-		FOR LCD DRIVE				
	RS	H/L	REGISTER SELECT SIGNAL					
4			H: DATA INPUT					
			L: INSTRUCTION INPUT					
5	R/₩	H/L	H: DATA READ (MODULE>MPU)					
			L: DATA WRITE (MODULE <mpu)< td=""></mpu)<>					
6	Ε	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					
17	HTR +	-	+12V					
18	HTR -	-	GND (OV)					

ELECTRICAL CHARACTERISTICS $V_{DD}=4.7V$ to 5.3V, $T_A=25^{\circ}C$								
ITEM			SYMBOL	CONDITION	STANDARD VALUE			UNIT
				COMPITION	MIN.	TYP.	MAX.	UIVII
SUPPLY VOLTAGE FOR LOGIC			V _{DD} -Vss	-	-	5.0	_	٧
SUPPLY CURRENT FOR LOGIC			IDD	V _{DD} =5V	-	1.6	2.5	mA
INPUT VOLTAGE HIGH LOW		V _{IH}	-	2.2	-	V_{DD}	٧	
		LOW	٧ _{IL}	-	0	-	0.6	٧
OUTPUT VOLTAGE HIGH LOW		Voн	-	2.4	-	-	٧	
		V _{OL}	-	-	-	0.4	٧	
	VOLTAGE		Vf	lf=15mA	-	6.6	7.2	٧
LED	CURRENT		lf	-	-	15	-	mA
LED	POWER CUNSUMPTION		PD	-	-	99	-	mW
BACKLIGHT	LUMINOUS		Г	lf=15mA	70	-	_	cd/m ²
	COLOR		Х	WHITE	.240	-	.330	
	COORDINATE		Y	WHILE	.240	-	.330	
HEATER	VOLTAGE		V _{fH}	-	-	12	-	٧
	RESISTANCE			_	-	11	-	ОНМ
	CURRENT		IH	_	-	1.1	_	AMP
	POWER		PH	-	-	13.1	_	W





ABSOLUTE MAXIMUM RATINGS

CAMBU	TEST	STANDAR	D VALUE	UNIT	
STWIDOL	CONDITION	MIN	MAX		
VDD-Vss	Ta=25°C	4.7	5.3	٧	
VDD-Vo	-	4.2@50°C	4.8@0°C	٧	
٧ _I	Ta=25°C	Vss	v _{DD}	٧	
Topr	W/ HEATER	-40	+85	•C	
Tstg	W/ HEATER	-40	+85	•c	
	V _{DD} -Vo V _I Topr	SYMBOL CONDITION VDD-Vss Ta=25°C VDD-Vo - VI Ta=25°C Topr W/ HEATER	SYMBOL CONDITION MIN VDD-Vss Ta=25°C 4.7 VDD-Vo - 4.2@50°C VI Ta=25°C Vss Topr W/ HEATER -40	SYMBOL CONDITION MIN MAX VDD-Vss Ta=25°C 4.7 5.3 VDD-Vo - 4.2@50°C 4.8@0°C VI Ta=25°C Vss V DD Topr W/ HEATER -40 +85	

UNCONTROLLED DOCU

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN=+DECIMAL PRECISION MAX.= +0.00 (±0.000), X.XX=±0.127 (±0.000). LEAD SIZE=±0.05 (±0.000), LEAD SIZE

REV.

PART NUMBER LCR-U02002DSF-WH

20 x 2 CHARACTER LCD MODULE, STN GRAY, -40°C TO $+85^{\circ}\text{C}$ OPERATING TEMPERATURE, W/ HEATER, TRANSFLECTIVE, WHITE LED BACKLIGHT, 6:00 VIEW.

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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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