

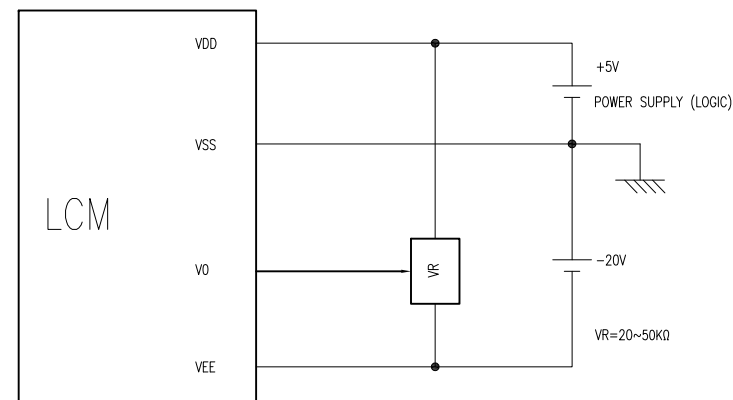
INTERFACE CONNECTOR			
PIN No.	SYMBOL	LEVEL	FUNCTION
1	FLM	H/L	DISPLAY CYCLE CLOCK
2	M	—	FRAME MODULATION SIGNAL
3	CL1	H→L	DATA LATCH SIGNAL
4	CL2	H→L	DATA SHIFT SIGNAL
5	DISPOFF	H→L	DISPLAY OFF CONTROL SIGNAL
6	D0	H/L	DISPLAY DATA LINE
7	D1		
8	D2		
9	D3		
10	VDD	—	POWER SUPPLY FOR LOGIC (+5V)
11	VSS	—	SIGNAL GROUND (0V)
12	VEE	—	POWER SUPPLY FOR LCD
13	V0	—	LCD CONTRAST ADJUST VOLTAGE
14	FG	—	FRONT PANEL GROUND

CCFL CONNECTOR			
PIN No.	SYMBOL	LEVEL	FUNCTION
1	HV	—	POWER SUPPLY VOLTAGE FOR CCFL
2	NC	—	—
3	NC	—	—
4	GND	—	GROUND LINE (FROM INVERTER)

MAXIMUM ABSOLUTE LIMIT			
ITEM	SYMBOL	LEVEL	UNIT
POWER SUPPLY VOLTAGE	V _{DD}	-0.3~7.0	V
DRIVER SUPPLY VOLTAGE	V _{LCD}	0~30	V
INPUT VOLTAGE	V _{IN}	-0.3~V _{DD} +0.3	V
LAMP VOLTAGE	V _{FL}	300	V _{rms}
OPERATING TEMPERATURE	T _{opr}	-40 TO +85	°C
STORAGE TEMPERATURE	T _{stg}	-40 TO +85	°C

*VOLTAGE GREATER THAN ABOVE MAY CAUSE DAMAGE TO THE CIRCUIT.

COMMON DRIVER APPLICATION						
CHARACTERISTIC	SYMBOL	STANDARD VALUE			TEST CONDITION	UNIT
		MIN	TYP	MAX		
OPERATING VOLTAGE	V _{DD}	2.7	—	5.5	—	V
	V _{LCD}	6	—	28	V _{IN} =V _{DD} =V _{EE}	
INPUT VOLTAGE (1)	V _{IL}	0	—	0.2V _{DD}	—	V
	V _{IH}	0.8V _{DD}	—	V _{DD}	—	
OUTPUT VOLTAGE (3)	V _{OL}	—	—	0.4	I _{OL} =0.4mA	V
	V _{OH}	V _{DD} -0.4	—	—	I _{OH} =0.4mA	
INPUT LEAKAGE CURRENT1 (1)	I _{IL1}	-10	—	10	V _{IN} =V _{DD} TO V _{SS}	μA
INPUT LEAKAGE CURRENT2 (2)	I _{IL2}	-50	-125	-250	V _{IN} =0V, V _{DD} =5V	
INPUT LEAKAGE CURRENT3 (4)	I _{IL3}	-25	—	25	V _{IN} =V _{DD} TO V _{EE}	
ON RESISTANCE (5)	R _{ON}	—	2	4	I _{ON} =100μA	kΩ
SUPPLY CURRENT (6)	ISTBY	—	—	100	f _{CL1} =32 kHz	V _{SS} pin
		—	—	200	V _{DD} =5V	μA
	IDD	—	—	120	f _{CL1} =32 kHz	V _{DD} =3V
		—	—	150	f _M =80 kHz	V _{DD} =5V
	IEE	—	—	150		



BACKLIGHT						
ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS
LAMP VOLTAGE	V	—	—	300	V _m	I _F =5mA
LAMP CURRENT	I	—	5.0	—	mA	—
POWER DISSIPATION	PD	—	2.5	—	W	I _F =5mA
LIGHTING FREQUENCY	F _{osc}	—	50	—	kHz	I _F =5mA
LUMINOUS INTENSITY	L	—	1000	—	cd/m ²	I _F =5mA

SEGMENT DRIVER APPLICATION							
CHARACTERISTIC	SYMBOL	STANDARD VALUE			TEST CONDITION		UNIT
		MIN	TYP	MAX			
OPERATING VOLTAGE	VDD	2.7	—	5.5	—		V
	VLCD	6	—	28	VIN=VDD-VEE		
INPUT VOLTAGE	VIL	0	—	0.2VDD	—		V
	VIH	0.8VDD	—	VDD	—		
OUTPUT VOLTAGE	VOL	—	—	0.4	IOL=0.4mA		V
	VOH	VDD-0.4	—	—	IOH=-0.4mA		
INPUT LEAKAGE CURRENT1	IIL1	-10	—	10	VIN=VDD TO VSS		uA
INPUT LEAKAGE CURRENT2	IIL2	-25	—	25	VIN=VDD TO VEE		
ON RESISTANCE	RON	—	2	4	ION=100uA		kΩ
SUPPLY CURRENT	ISTBY	—	—	100	fCL1=32kHz M=VSS	VSS PIN	uA
	IDD	—	—	5	fCL1=32 kHz fM=80 kHz	VDD=5V	mA
		—	—	2		VDD=3V	
		IEE	—	—		500	VDD=5V

*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.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

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425 N. GARY AVE.
CAROL STREAM, IL 60188-4900
PHONE: +1.800.278.5666
FAX: +1.630.315.2152
WEB: WWW.LUMEX.COM
MEMBER OF ITW PHOTONICS GROUP

320 x 240 DOT MATRIX, STN, BLUE, TRANSMISSIVE, 1/240 DUTY. NEGATIVE IMAGE WITH CCFL BACKLIGHT.

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

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