



# 240 x 64 Dots Graphic LCD



#### **FEATURES**

- Built-in controller (T6963C or equivalent)
- + 5V power supply
- 1/64 duty cycle
- Built-in N/V

MECHANICAL DATA					
ITEM	STANDARD VALUE	UNIT			
Module Dimension	180.0 x 65.0	mm			
Viewing Area	133.0 x 39.0	mm			
Dot Size	0.49 x 0.49	mm			
Dot Pitch	0.53 x 0.53	mm			

ABSOLUTE MAXIMUM RATING					
ITEM	SYMBOL	STANDARD VALUE UN			
		MIN.	TYP.	MAX.	
Power Supply	VDD-VSS	4.75	5.0	5.25	V
Input Voltage	VI	- 0.3	_	VDD	V

NOTE: VSS = 0 Volt, VDD = 5.0 Volt

ELECTRICAL SPECIFICATIONS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE		IE	UNIT
			MIN.	TYP.	MAX.	
Input Voltage	VDD	L level	0.7V <sub>DD</sub>	-	V <sub>DD</sub>	V
	VIO	H level	0	-	0.3V <sub>DD</sub>	V
Supply Current	IDD	VDD = + 5V	_	23.0	24.0	mA
		- 20°C	13.0	13.5	14.1	
Recommended LC Driving		0°C	12.5	13.1	13.7	
Voltage for Normal Temp.	VDD - V0	25°C	12.1	12.7	13.3	V
Version Module		50°C	11.1	12.2	13.0	
		70°C	9.1	11.6	12.8	
LED Forward Voltage	VF	25°C	_	4.2	4.6	V
LED Forward Current	IF	25°C	_	450	900	mA
CCFL	VF	25°C	_	215	650	Vms
	IF	25°C	_	_	5.0	mA
EL	IEL	Vel = 110VAC; 400Hz	_	_	5.0	mA

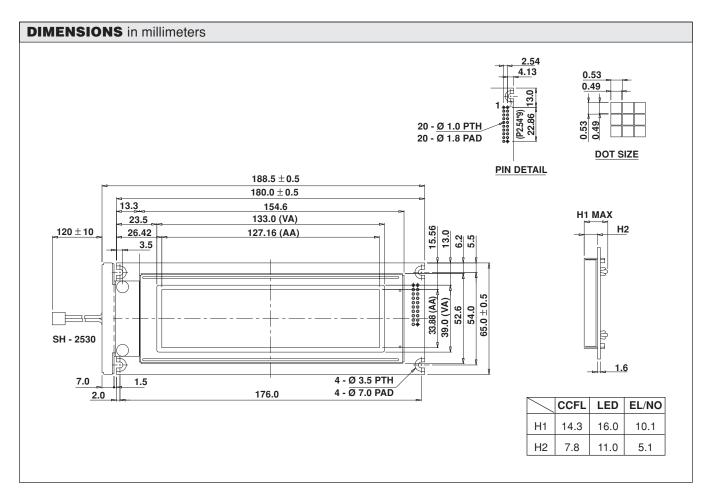
### LCD-240G064C

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PIN NUMBER	SYMBOL	FUNCTION	
1	FG	Frame Ground	
2	Vss	Power Supply (GND)	
3	Vdd	Power Supply (+ 5V)	
4	V0	Contrast Adjustment	
5	WR	Data Write	
6	RD	Data Read	
7	CE	Chip Enable	
8	C/D	Command/Data Read/Write	
9	Vee	Negative Voltage Output	
10	Reset	Reset Signal	
11	DB0	Data Bus Line	
12	DB1	Data Bus Line	
13	DB2	Data Bus Line	
14	DB3	Data Bus Line	
15	DB4	Data Bus Line	
16	DB5	Data Bus Line	
17	DB6	Data Bus Line	
18	DB7	Data Bus Line	
19	FS	Font Selection FS = "H", 6 x 8 Character Font FS = "H" 8 x 8 Character Font	
20	NC	No Connection	





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