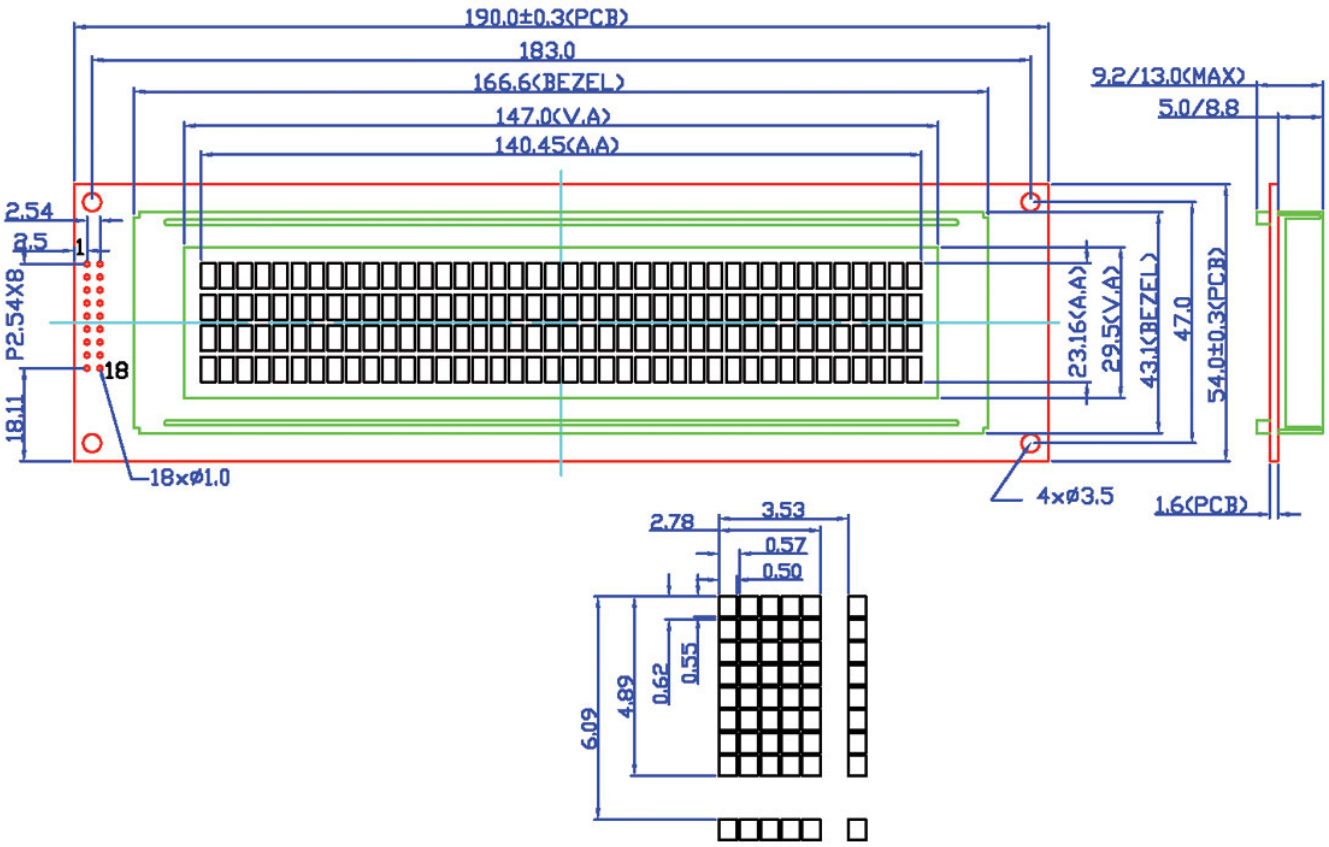
FEMA ELECTRONICS CORPORATION

40 X 4 LCD CHARACTER MODULE

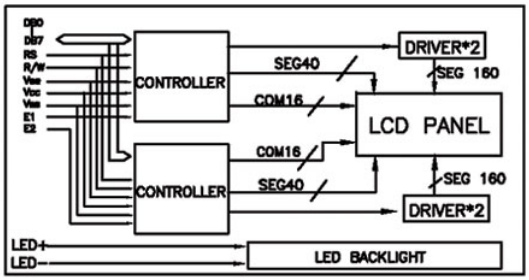
FEMA P/N: CM4044

PACKAGE DIMENSIONS:



PIN Connections

PIN	SYMBOL	SIGNAL DESCRIPTION
1-8	DB7-DB0	Data Bus Line
9	E1	Enable Signal For Left
10	RS	Instruction/Data Register Select
11	R/W	Data Read/Write
12	Vo	Contrast Adjust
13	Vss	Power Supply(GND)
14	Vdd	Power Supply(+5V)
15	E2	Enable Signal For Right
16	NC	NC
17	K	Power Supply for LED B/L (-)
18	A	Power Supply for LED B/L (+)



Absoltute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit
Supply Voltage	Vdd	-0.3	7.0	V
LCD Supply Voltage	Vee	Vdd-15.0	0	V
Input Voltage	Vr	-0.3	Vdd+0.3	V
Operating Temperature	Top	0	50	°C
Storage Temperature	Tstg	-20	70	°C

Bottom BackLight Characters

(Ta=25 ° C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Supply Voltage	V_{LED}	—	—	4.2	—	V
LED Forward Consumption Current	If	Ta=25° C Vf=4.1V	—	450	—	mA
LED Allowable Dissipation	Pd	—	—	1900	—	mW

Electrical Characteristics

(Ta=25 ° C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Supply Voltage(Logic)	Vdd-Vss	—	4.5	5.0	5.5	V
Supply Current(Logic)	Idd	VDD=5.0V	—	1.0	2.2	mA
Driving Current(LCD)	Iee	Vee=4.2V	—	1.46	—	mA
Driving Voltage(LCD)	Vdd-Vee	—	—	4.5	—	V
Input Voltage "H"	V_{IH}	H	0.8Vdd	—	VDD	V
Input Voltage "L"	V_{IL}	L	Vss	—	0.8	V
Output Voltage "H"	V_{OH}	H	2.4	—		V
Output Voltage "H"	V_{OL}	L	—	—	0.4	V

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