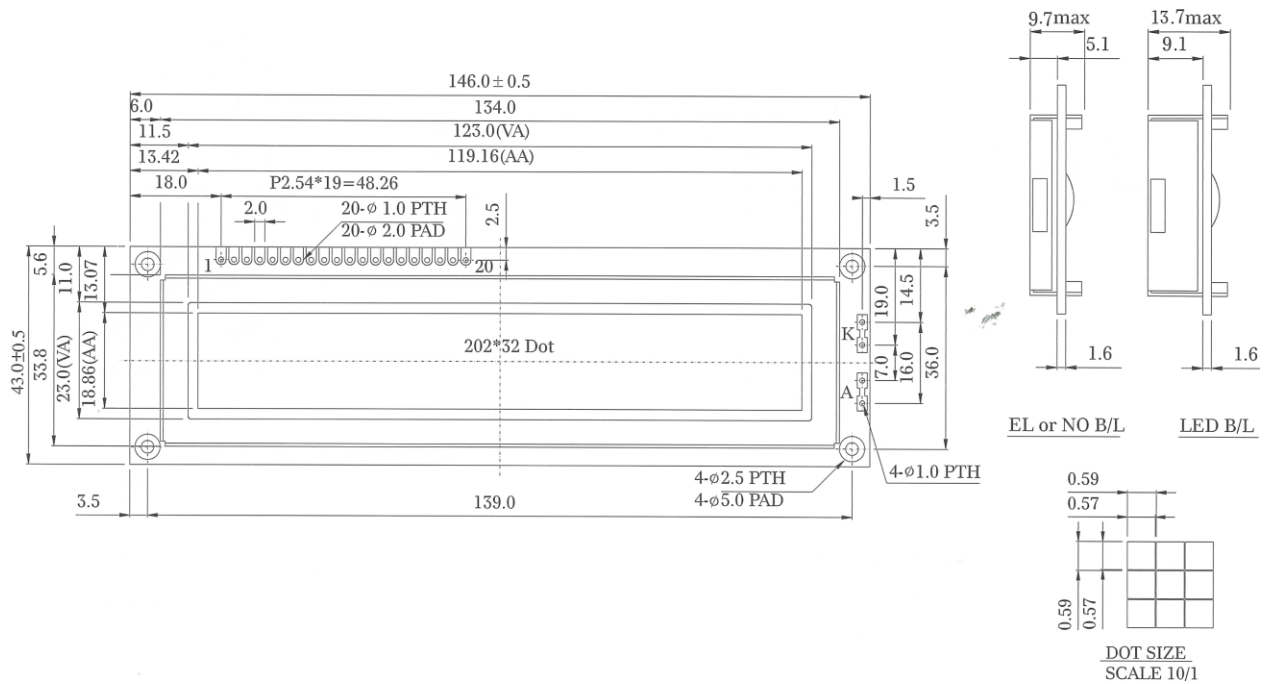


MSG20232A

Graphic 202x32 dots

GMS.

■ ■ ■ DISPLAY SYSTEMS



Feature		
1. Built-in oscillation		
2. Built-in controller Avant (SBN1661G or equivalent)		
3. 1/32 duty cycle		
4. 2.85 ~ 5V Power supply		
Pin	Symbol	Function
1	Vss	GND
2	Vdd	Power supply (+3V, 5V)
3	Vo	Contrast Adjustment
4	Ao	H:D0-D7 are display data
		L:D0-D7 are display control data
5	R/W	WR for 80 serial R/W or 68 serial
6	CS1	Enable Chip1
7	DB0	Data busline
8	DB1	Data busline
9	DB2	Data busline
10	DB3	Data busline
11	DB4	Data busline
12	DB5	Data busline
13	DB6	Data busline
14	DB7	Data busline
15	Vee	Negative Voltage output
16	Reset	Reset signal
17	A	+4.2Vf or LED RA=0 Ohm
18	K	Power supply for B/L (0V)
19	CS2	Enable Chip2
20	CS3	Enable Chip3

Mechanical Data			
Item	Standard Value	Unit	
Module Dimension	146.0 x 43.0	mm	
Viewing Area	123.0 x 23.0	mm	
Dot Size	0.57 x 0.57	mm	
Dot Pitch	0.59 x 0.59	mm	
Absolute Maximum Rating			
Item	Symbol	Standard Value	Unit
Power Supply	Vdd - Vss	min	-0.3
		typ	---
		max	8.0
Input Voltage	Vi	-0.3	V

Note: Vss=0V, Vdd=5.0V

Electronical Characteristics						
Item	Symbol	Condition	Standard Value			Unit
			min	typ	max	
Input Voltage	Vdd	Vdd=3V±5V	2.7	3.0	3.3	V
Supply Current	Idd	Vdd=3V	---	10.0	---	mA
Recommended LC Driving Voltage for normal Temperature Version module	Vdd-Vo	-20°C	5.9	6.2	6.5	V
		0°C	5.7	6.0	6.3	
		25°C	4.6	4.7	4.8	
		50°C	4.3	4.4	4.5	
		70°C	3.3	3.4	3.5	

See Specification for Backlight information.

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1 / 1

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