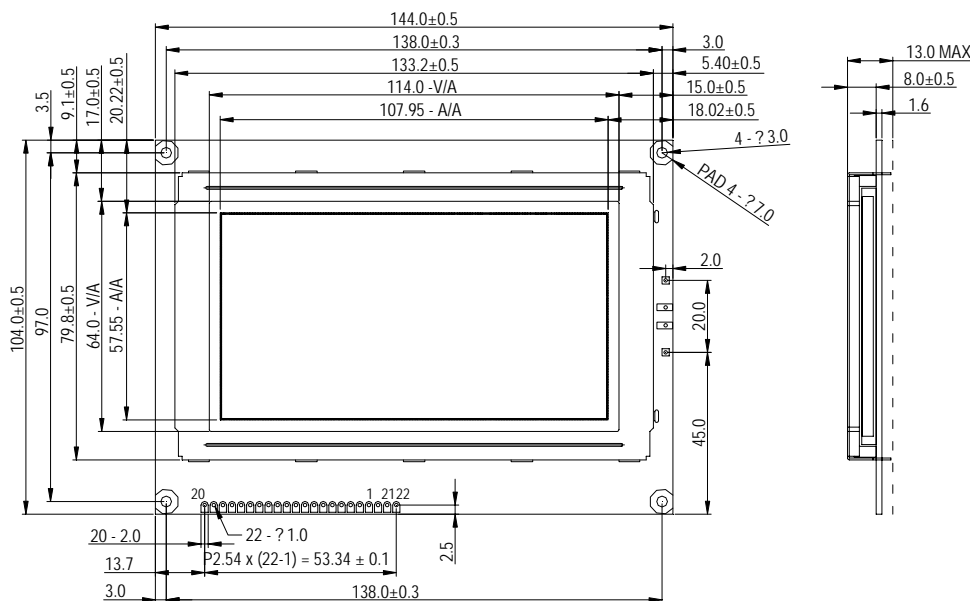


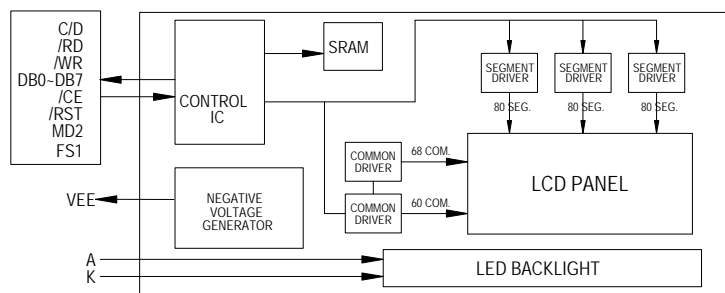
Standard LCD module

MG240128-03

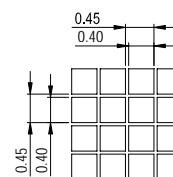
OUTLINE DIMENSION



BLOCK DIAGRAM



DISPLAY PATTERN



MECHANICAL SPECIFICATION

Item	Dimensions(W)X(H)	Unit
Overall Size	144.0x104.0	MM
View Area	114.0x64.0	MM
Dot Size	0.40x0.40	MM
Dot Pitch	0.45x0.45	MM

PIN ASSIGNMENT

Pin no	Symbol	Description
1	VSS	Ground
2	VDD	Power supply for LCM
3	V0	Contrast adjust
4	C/D	Command/data select
5	/RD	Data read
6	/WR	Data write
7~14	DB0~DB7	Bata bus line
15	/CE	Chip enable
16	/RST	Reset signal
17	VEE	Negative voltage
18	MD2	Control signal
19	FS1	Font selection
20	NC	Not connect

ABSOLUTE MAXIMUM RATING

Item	Symbol	Condition	Min	Max	Unit
Supply for logic voltage	V _{DD}	25°C	-0.3	7.0	V
LCD driving supply voltage	V _{LCD}	25°C	---	---	V
Input voltage	V _I	25°C	-0.3	V _{DD} +0.3	V

ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Min	Typical	Max	Unit
Supply voltage for logic	V _{DD}	25°C	4.5	5.0	5.5	V
Supply current for logic	I _{DD}	25°C	---	16.5	19.0	mA
Operating for LCD	V _{LCD}	V _{DD} -V ₀	16.6	17.5	18.4	V
Input voltage "H" level	V _{IH}	---	0.7V _{DD}	---	V _{DD}	V
Input voltage "L" level	V _{IL}	---	V _{SS}	---	0.3V _{DD}	V
Supply voltage for backlight	V _{BL}	---	According to backlight type			V
Supply current for backlight	I _{BL}	---	According to backlight type			mA

REMARKS:

- LCD options: STN, FSTN.
- Back light type: LED Back light feature.