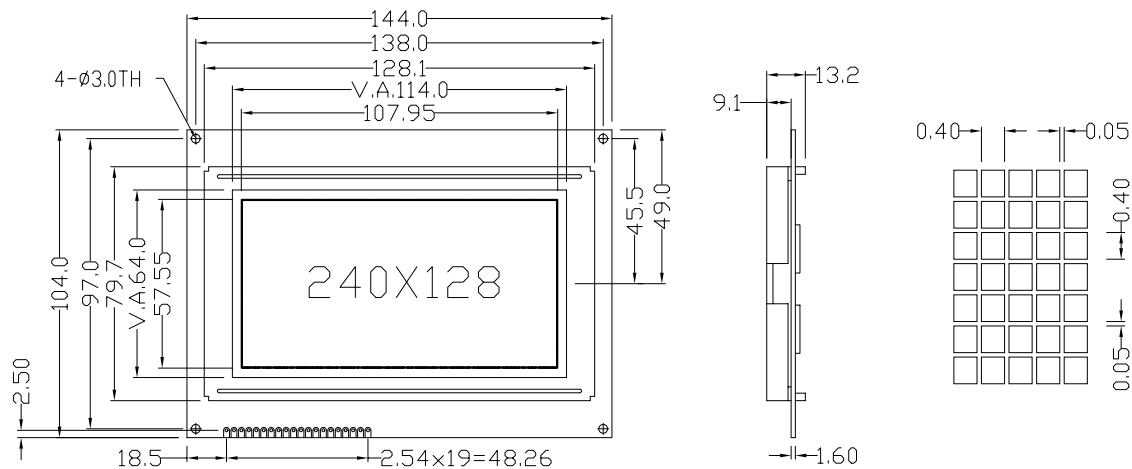


1 EXTERNAL DIMENSIONS AND DISPLAY PATTERN



2 PIN CONNECTION

Pin No.	Symbol	Level	Function
1	FG	--	Frame ground
2	Vss	--	Power supply
3	Vdd	--	
4	Vo	--	Operating voltage for LCD
5	/WR	H/L	Write signal
6	/RD	H/L	Read signal
7	/CE	L	Chip enable signal
8	C/D	H/L	Select data or instruction code
9	/RESET	H/L	RESET signal
10	D0	H/L	Data bus line
11	D1	H/L	
12	D2	H/L	
13	D3	H/L	
14	D4	H/L	
15	D5	H/L	
16	D6	H/L	
17	D7	H/L	
18	FS	H/L	Font select
19	VOUT	-10V	Negative voltage(-10v)
20	LED+	+5V	LED Backlight

3 FEATURES

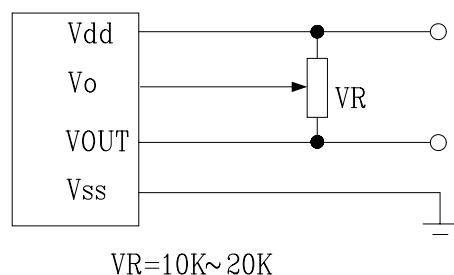
MECHANICAL DATA (Nominal dimensions)

Module size.....144.0W*104.0H*13.2D mm
Effective display area.....114.0W*64.0H mm
Dot size0.4W*0.4H mm
Dot pitch0.45W*0.45H mm

~~~~~  
ABSOLUTE MAXIMUM RATINGS min. max.  
Power supply for logic (Vdd-Vss).....-0.3 7.0V  
Power supply for lcd drive (Vdd-Vo)..- 14.0V  
Input voltage (Vi).....Vss Vdd  
Operating temperature (Ta).....-10 50°C  
storage temperature (Tstg).....-20 70°C  
~~~~~

ELECTRICAL CHARACTERISTICS min. max.
Ta=25°C, Vdd=5.0±0.5V
Input 'high' voltage (Vih).....0.7Vdd Vdd
Input 'low' voltage (Vil).....0 0.3Vdd
Power supply current (Idd)(Vdd=5.0V).....29.5mA
Power supply current for LED.....210mA
There is negative voltage in the module

4 POWER SUPPLY



5 BLOCK DIAGRAM

