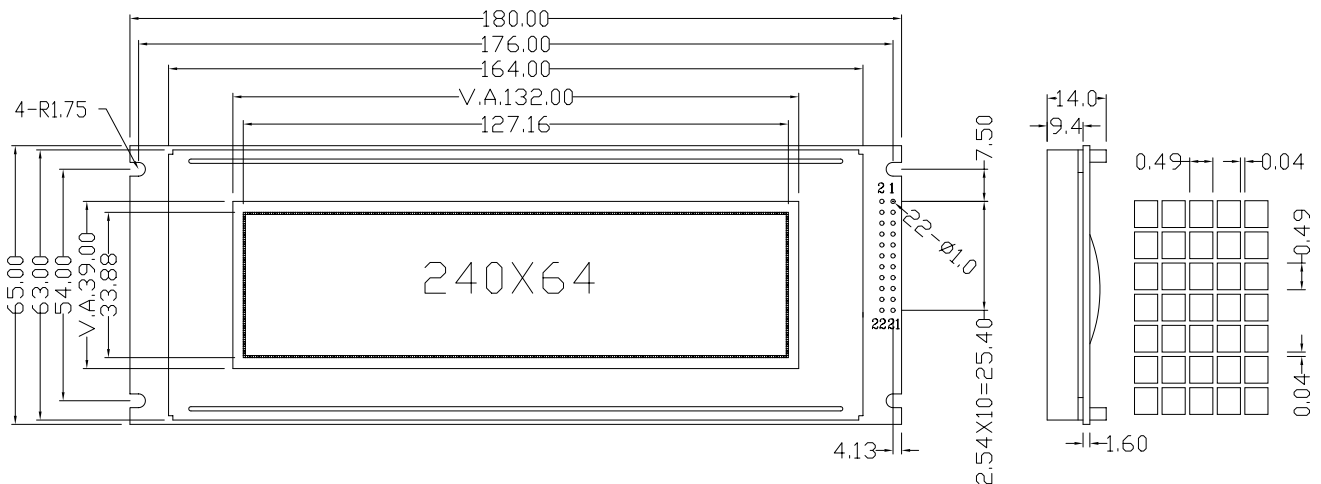


1 EXTERNAL DIMENSIONS AND DISPLAY PATTERN



2 PIN CONNECTION

Pin No.	Symbol	Level	Function
1	FG	--	Frame ground
2	Vss	--	Power supply
3	Vdd	--	Power supply
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	NC	--	No Connect
10	/RESET	H/L	RESET signal
11	D0	H/L	Data bus line
12	D1	H/L	
13	D2	H/L	
14	D3	H/L	
15	D4	H/L	
16	D5	H/L	
17	D6	H/L	
18	D7	H/L	
19	FS	H/L	Font selection
20	VOUT	-10V	Supply voltage for LCD
21	A	--	Backlight power supply
22	K	--	Backlight power supply

3 FEATURES

MECHANICAL DATA (Nominal dimensions)

Module size.....180.0W*65.0H*9.5D mm
Effective display area.....132.0W*39.0H mm
Dot size0.49W*0.49H mm
Dot pitch0.53W*0.53H mm

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### ABSOLUTE MAXIMUM RATINGS

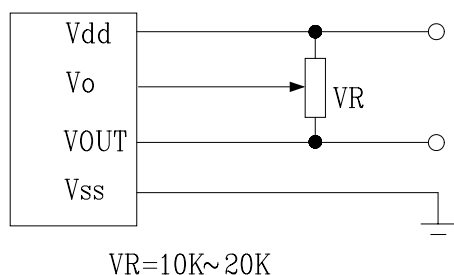
min. max.  
Power supply for logic (Vdd-Vss).....-0.3 7.0V  
Power supply for lcd drive (Vdd-Vo)..... 12.0V  
Input voltage (Vi).....Vss Vdd  
Operating temperature (Ta).....-10 60°C  
storage temperature (Tstg).....-20 70°C

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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).....20.0mA
Drive method.....1/64 Duty, 1/9 Bias

4 POWER SUPPLY



5 BLOCK DIAGRAM

