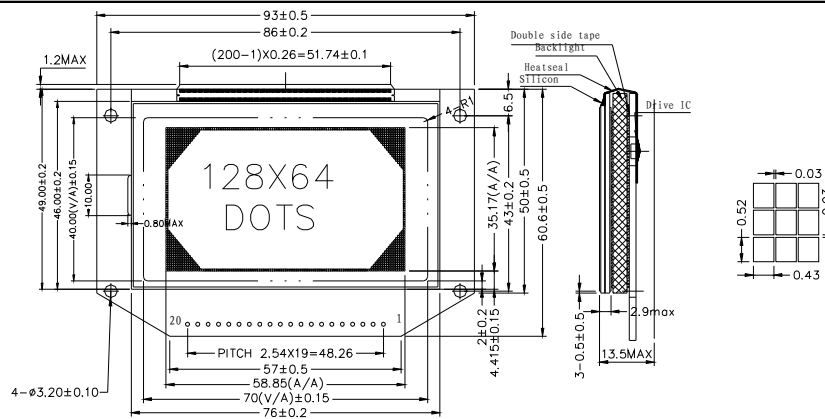


EXTERNAL DIMENSIONS AND DISPLAY PATTERN



MECHANICAL DATA (Nominal dimensions)

ITEM	SPECIFICATION	UNIT
Module Size(WxH)	93.0X60.0	mm
Viewing Area(WxH)	70.00X40.00	mm
Internal Area(WxH)	58.85X35.17	mm
Dot pitch(WxH)	0.46X0.55	mm
Dot Size(WxH)	0.42X0.50	mm
DOTS	128X64	dot

Absolute Maximum Ratings

Item	Symbol	Condition	Standard Value		unit
			min	max	
Supply Voltage for Logic	$V_{DD}-V_{SS}$	$T_a=25^{\circ}C$	0	6.5	V
Supply Voltage for LCD	$V_{DD}-V_{BE}$		0	18.0	V
Input Voltage	V_I		0	V_{DD}	V

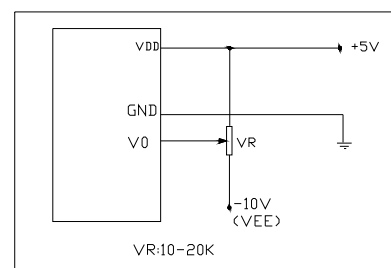
PIN CONFIGURATION

ITEM	SYMBOL	Level	DESCRIPTION
1	A0	H/L	Select display data or instruction
2	/RD	H/L	Read signal
3	/WR	H/L	Write signal
4	/RES	H/L	Reset signal
5	/CS	H/L	/CS=" L ", select IC
6	GND	0V	Ground
7	LED+	+5V	LED+ Backlight
8	VDD	+5V	Power supply for basic
9-16	DB0-DB7	-	Data bus
17-20	NC	-	Not connect

ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Standard value			Unit
			min.	typ.	max.	
Supply Voltage for Logic	$V_{DD}-V_{SS}$	-	2.7	3.3	3.6	V
Supply Voltage for LCD	$V_{DD}-V_0$	-	-	13.0	-	V
Input high Voltage	V_{IH}	-	$0.8V_{DD}$	-	V_{DD}	V
Input low Voltage	V_{IL}	-	0	-	$0.2V_{DD}$	V
Supply Current for Logic	V_{OH}	$-I_{OH}=0.2mA$	-	0.6	-	mA
Supply Current for LCD	V_{OL}	$I_{OL}=1.2mA$	-	3.0	-	mA
With B/L	I_{LED}	$V_{DD}=5.0V$	-	60	-	mA
Drive method	1/64Duty 1/9Bias					

Power supply



Block diagram

