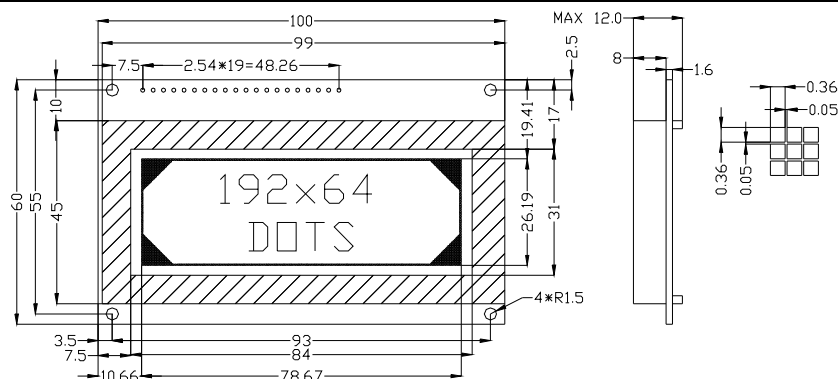




TG19264B(L) TINSHARP ELECTRONICS CO.LTD

EXTERNAL DIMENSIONS AND DISPLAY PATTERN



MECHANICAL DATA (Nominal dimensions)

ITEM	SPECIFICATION	UNIT
Module Size(WxH)	100x60	mm
Viewing Area(WxH)	84x31	mm
Internel Area(WxH)	78.67x26.19	mm
Dot pitch(WxH)	0.41x0.41	mm
Dot Size(WxH)	0.36x0.36	mm
DOTS	192x64	dot

Absolute Maximum Ratings

Item	Symbol	Condition	Standard Value		unit
			min	max	
Supply Voltage for Logic	$V_{DD}-V_{SS}$	$T_a=25^{\circ}\text{C}$	0	6.7	V
Supply Voltage for LCD	$V_{DD}-V_{BE}$		0	15	V
Input Voltage	V_i		0	V_{DD}	V

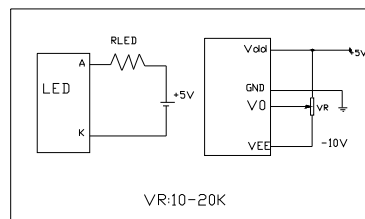
PIN CONFIGURATION

ITEM	SYMBOL	Leve	Function
1-8	DB7-DB0	H/L	Data bus
9	E	H/L	Enable signal
10	R/W	H/L	H:Data read L:Data write
11	D/I	H/L	H:Display data L:Dispay instruction
12	V0	-6V	Operating voltage for lcd
13	VDD	5.0V	Power supply
14	VSS	0V	Ground
15	CSB	L	Chip select signal
16	CSA	L	Chip select signal
17	VEE	-10V	Negative voltage for lcd
18	RESET	L	Reset signal
19	BLA	+5.0V	For LED backlight
20	BLK	0V	

ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Standard value			Unit
			min.	typ.	max.	
Supply Voltage for Logic	$V_{DD}-V_{SS}$	-	4.75	5.0	5.25	V
Supply Voltage for LCD	$V_{DD}-V_0$	-	0	12.0	15.0	V
Input high Voltage	V_{IH}	-	$0.7V_{DD}$	-	V_{DD}	V
Input low Voltage	V_{IL}	-	0	-	$0.3V_{DD}$	V
Supply Current for Logic	V_{OH}	$-I_{OH}=0.2\text{mA}$	-	15.0	-	mA
Supply Current for LCD	V_{OL}	$I_{OL}=1.2\text{mA}$	-	4.0	-	mA
With B/L	I_{LED}	$V_{DD}=5.0\text{V}$	-	140	-	mA
Drive method	1/64Duty		1/9Bias			

Power supply



Block diagram

