



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



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SPECIFICATION

MODULE NO.:

WG19264A

General Specification

Item	Dimension	Unit
Number of dots	192 x 64	—
Module dimension	130.0 x 65.0 x 12.9 (MAX)	mm
View area	102.0 x 39.0	mm
Active area	96.0 x 32.0	mm
Dot size	0.46 x 0.46	mm
Dot pitch	0.50 x 0.50	mm
Duty	1/64	
Backlight Type	LED	
IC	NT7107, NT7108	
Interface	6800	

Absolute Maximum Ratings

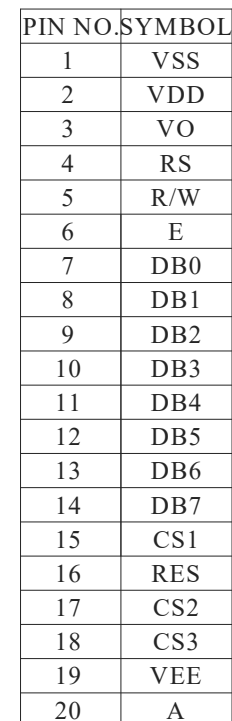
Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	°C
Storage Temperature	T_{ST}	-30	—	+80	°C
Supply Voltage For Logic	$V_{DD}-V_{SS}$	-0.3	—	7.0	V
Driver Supply Voltage	V_{LCD}	$V_{EE}-0.3$	—	$V_{DD}+0.3$	V

Electrical Characteristics

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	$V_{DD}-V_{SS}$	—	4.5	5.0	5.5	V
Supply Voltage For LCD	$V_{DD}-V_O$	$T_a=-20^{\circ}\text{C}$	—	—	9.2	V
		$T_a=25^{\circ}\text{C}$	7.8	8.0	8.2	V
		$T_a=70^{\circ}\text{C}$	7.2	—	—	V
Input High Volt.	V_{IH}	—	$0.7 V_{DD}$	—	V_{DD}	V
Input Low Volt.	V_{IL}	—	0	—	0.8	V
Output High Volt.	V_{OH}	—	2.4	—	—	V
Output Low Volt.	V_{OL}	—	—	—	0.4	V
Supply Current	I_{DD}	$V_{DD}=5.0\text{V}$	3.0	3.6	4.5	mA

Interface Pin Function

Pin No.	Symbol	Level	Description
1	V _{SS}	0V	Ground
2	V _{DD}	5.0V	Supply voltage for logic
3	V _O	(Variable)	Operating voltage for LCD
4	RS	H/L	H: DATA, L: Instruction code
5	R/W	H/L	H: Read (MPU←Module) , L: Write (MPU→Module)
6	E	H	Enable signal
7	DB0	H/L	Data bus line
8	DB1	H/L	Data bus line
9	DB2	H/L	Data bus line
10	DB3	H/L	Data bus line
11	DB4	H/L	Data bus line
12	DB5	H/L	Data bus line
13	DB6	H/L	Data bus line
14	DB7	H/L	Data bus line
15	CS1	H	Select Column 1~ Column 64
16	RES	L	Reset signal
17	CS2	H	Select Column 65~ Column 128
18	CS3	H	Select Column 129~ Column 192
19	V _{ee}		Negative Voltage output
20	A	—	LED(+)



0.50
0.46

0.50
0.46

DOT SIZE
SCALE 10/1