



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



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SPECIFICATION

MODULE NO.:

WG12232I

General Specification

Item	Dimension	Unit
Number of dots	122 x 32	—
Module dimension	59.0 x 29.3 x 5.55 (MAX)	mm
View area	52.0 x 15.0	mm
Active area	45.72 x 11.97	mm
Dot size	0.345 x 0.345	mm
Dot pitch	0.375 x 0.375	mm
Duty	1/32	
Backlight Type	LED	
IC	AIP31520	
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
Input Voltage	V_I	-0.3	—	$V_{DD}+0.3$	V
Supply Voltage For Logic	$V_{DD}-V_{SS}$	-0.3	—	+6.0	V
LCD bias voltage	V_{LCD}	3.5	—	13	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	$V_{DD}-V_0$	$T_a=-20^{\circ}\text{C}$	—	—	—	V
		$T_a=25^{\circ}\text{C}$	4.7	4.8	4.9	V
		$T_a=+70^{\circ}\text{C}$	—	—	—	V
Input High Volt.	V_{IH}	—	2	—	V_{DD}	V
Input Low Volt.	V_{IL}	—	0	—	+0.8	V
Output High Volt.	V_{OH}	—	$V_{DD}-0.4$	—	V_{DD}	V
Output Low Volt.	V_{OL}	—	V_{SS}	—	$V_{SS}+0.4$	V
Supply Current	I_{DD}	$V_{DD}=5.0\text{V}$	—	0.7	—	mA

Interface Pin Function

Pin No.	Symbol	Level	Description
1	VLED	—	Supply voltage for B/L -
2	VSS	0V	Ground
3	VDD	5.0	Power Supply
4	V0	(Variable)	Operating voltage for LCD
5	A0	H/L	H : Data L : Instruction
6	E1	H/L	Chip select signal for IC1 ,active “ H “
7	E2	H/L	Chip select signal for IC2 , active “ H “
8	DB0	H/L	Data bus
9	DB1	H/L	Data bus
10	DB2	H/L	Data bus
11	DB3	H/L	Data bus
12	DB4	H/L	Data bus
13	DB5	H/L	Data bus
14	DB6	H/L	Data bus
15	DB7	H/L	Data bus
16	R/W	H/L	H : Read ; L : Write

Contour Drawing

