

1. FEATURES

- * The features of HG25504NG-01 are as follows :
- * Display mode : STN gray positive type display
- * Display format : 256 × 128 Dots
- * Driving method : 1/128 Duty
- * Viewing direction : 6 O'clock
- * 80 Serise available

2. MECHANICAL SPECIFICATIONS

Item	Specification	Unit
Module Size (W × H × T)	147.0 × 116.0 × 12.0 Max	mm
Viewing Area (W × H)	127.0 × 70.0	mm
Dot Size (W × H)	0.43 × 0.43	mm
Dot Pitch (W × H)	0.47 × 0.47	mm
Weight	About 155	g

3. ABSOLUTE MAXIMUM RATINGS

3-1. Electrical Absolute Maximum Ratings

Item		Symbol	Value			Unit	Condition
			Min.	Typ.	Max.-		
Supply voltage	Logic	$V_{DD} - V_{SS}$	0	-	7.0	V	$T_a=25^{\circ}\text{C}$ $V_{DD}=5\text{V} \pm 10\%$ $V_{SS}=0\text{V}$
	LCD	$V_{DD} - V_0$	0	-	30	V	
Input voltage		V_i	-0.3	-	$V_{DD}+0.3$	V	

6. INTERFACE PIN ASSIGNMENT

Pin No.	Symbol	Level	Function
1	FG	0V	Frame ground
2	Vss(GND)	0V	Ground
3	VDD(VCC)	+5V	Power supply voltage for logic and LCD
4	V ₀	-	Operating voltage for LCD (variable)
5	/RES	H/L	Reset signal
6	/RD	H/L	Read signal
7	/WR	H/L	Write signal
8	/CS	H/L	Chip select signal
9	A0	H/L	Data type select signal
10	DB0	H/L	Display data bit 0
11	DB1	H/L	Display data bit 1
12	DB2	H/L	Display data bit 2
13	DB3	H/L	Display data bit 3
14	DB4	H/L	Display data bit 4
15	DB5	H/L	Display data bit 5
16	DB6	H/L	Display data bit 6
17	DB7	H/L	Display data bit 7

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Supply voltage	Logic	$V_{DD} - V_{SS}$	0	-	7.0	V	Ta=25℃ V _{DD} =5V±10% V _{SS} =0V
	LCD	$V_{DD} - V_0$	0	-	30	V	
Input voltage		V_i	-0.3	-	$V_{DD}+0.3$	V	