

AND501WGST/WGST-LED

20 Characters x 2 Lines

Intelligent Alphanumeric Displays

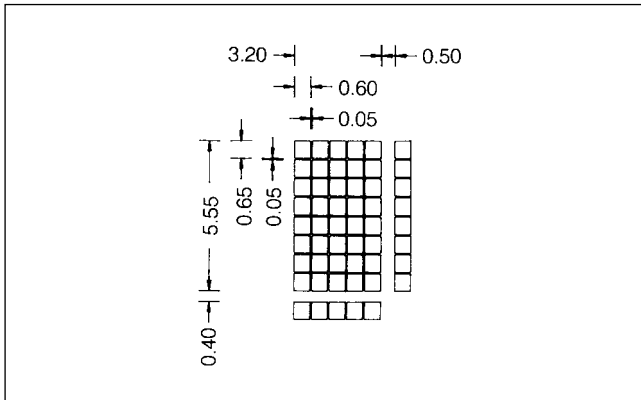
The AND501WGST/WGST-LED devices are compact, LCD modules that have an on-board LCD controller and driver circuit and wide operating temperature STN fluid. These devices can display 160 characters (numerals, letters, symbols and Kana letters).

Features

• RoHS Compliant

- AND501WGST: Wide Temp. Super Twist Technology
- AND501WGST-LED: WTSTN with LED backlight
- Low voltage, $\pm 5V$ power supply
- Controller on board (HD44780)
- RoHS compliant
- 11 commands for control

Dot Matrix Dimensions



Mechanical Characteristics

Item	Specification	Unit
Outline Dimensions	116 (W) x 37 (H) x 11 (D)	mm
Character Size	3.2 (W) x 5.55 (H)	mm
Viewing Area	83.0 (W) x 18.6 (H)	mm
Dot Size	0.60 (W) x 0.65 (H)	mm
Dot Pitch	0.65 (W) x 0.70 (H)	mm

Absolute Maximum Ratings

Item	Symbol	Rating	Unit
Supply Voltage	V_{DD}	7.0	V
Input Voltage	V_{IN}	$0 \leq V_{IN} \leq V_{DD}$	V
LED Forward Current	I_F	275	mA
LED Reverse Voltage	V_R	8	V
LED Power Dissipation	P_D	1270	mW

Absolute Maximum Ratings (Continued)

Item	Symbol	Rating	Unit
Operating Temperature	T_{op}	-20 to +70	$^{\circ}C$
Storage Temperature	T_{stg}	-30 to +80	$^{\circ}C$

Electrical Characteristics (TA = 25°C)

Item	Symbol	Min.	Typ.	Max.	Unit
Supply Voltage	V_{DD}	4.75	5.0	5.25	V
	GND	—	0	—	
High Level In Voltage ($V_{DD} = 5.0V$)	V_{IH}	2.2	—	—	V
Low Level In Voltage ($I_{OH} = 0.2$ mA)	V_{IL}	0	—	0.6	V
High Level Output Volt. ($-I_{OH} = 0.2$ mA)	V_{OH}	2.4	—	—	V
Low Level Output Volt. ($I_{OL} = 1.2$ mA)	V_{OL}	—	—	0.6	V
LED Forward Voltage ($I_F = 200$ mA)	V_F	3.8	4.1	4.4	V
LED Reverse Current ($V_R = 8$ V)	I_R	—	—	2.2	mA

Optical Characteristics (TA = 25°C, $\phi = 0^{\circ}C$, $\theta = 0$)

Item	Symbol	Min.	Typ.	Max.	Unit
Viewing Angle	ϕ	-10	25	40	degree
Contrast	K	—	3.0	—	—
Turn On	T_{on}	—	200	400	ms
Turn Off	T_{off}	—	250	400	ms

Connector Pin Assignment

Pin No.	Signal	Function
1	GND	Ground
2	V_{DD}	+5 Power Supply
3	V_O	LCD Drive Voltage

Product specifications contained herein may be changed without prior notice.

It is therefore advisable to contact Purdy Electronics before proceeding with the design of equipment incorporating this product.

