



# AND771GST/GST-LED

## 2 Lines x 24 Characters

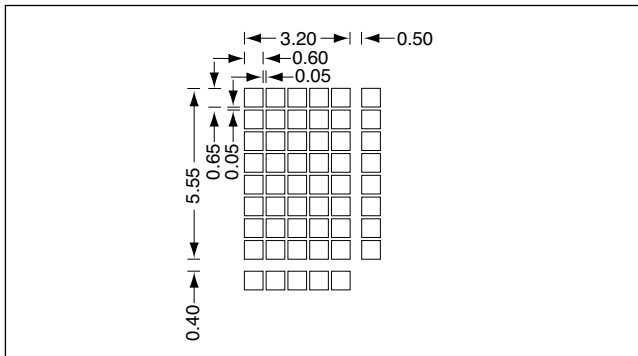
### Intelligent Character Display

The AND771GST/GST-LED devices are compact, LCD modules that have an on-board LCD controller and driver circuit. These devices can display 160 characters (numerals, letters, symbols and Kana letters), as well as eight custom characters.

### Features

- AND771GST: Super Twist Technology
- AND771GST-LED: STN with LED backlight
- Low voltage, +5V single power supply
- Controller on board (HD44780)
- Direct interface to 4- or 8-bit CPU
- 11 commands for control
- Wide temperature range option (WGST)

### Dot Matrix Dimensions



### Mechanical Characteristics

Item	Specification	Unit
Outline Dimensions	118 (W) x 36 (H) x 11 (D)	mm
Character Size	3.20 (W) x 5.55 (H)	mm
Viewing Area	93.5 (W) x 15.8 (H)	mm
Bezel Opening	93.5 (W) x 15.8 (H)	mm
Dot Size	0.60 (W) x 0.60 (H)	mm
Dot Pitch	0.65 (W) x 0.65 (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

### Absolute Maximum Ratings (Cont)

Item	Symbol	Rating	Unit
LED Forward Current	$I_F$	280	mA
LED Reverse Voltage	$V_R$	4	V
LED Power Dissipation	$P_D$	1150	mW
Operating Temperature	$T_{op}$	0 to +50	°C
Storage Temperature	$T_{stg}$	-20 to +60	°C

### Electrical Characteristics (TA = 25°C)

Item	Symbol	Min.	Typ.	Max.	Unit
Supply Voltage	$V_{DD}$	4.75	5.0	5.25	V
	$V_{DD}-V_O$	3.0	-	6.3	
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. ( $I_{OL} = 1.2 mA$ )	$V_{OL}$	-	-	0.4	V
LED Forward Voltage ( $I_F = 160 mA$ )	$V_F$	3.8	4.1	4.4	V
LED Reverse Current ( $V_R = 4 V$ )	$I_R$	-	-	100	$\mu A$

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

Item	Symbol	Min.	Typ.	Max.	Unit
Viewing Angle	$\phi$	-	50	-	degree
Contrast	K	-	6.0	-	-
Turn On	$T_{on}$	-	200	400	ms
Turn Off	$T_{off}$	-	250	400	ms

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.



