

## AND481GST/GST-LED

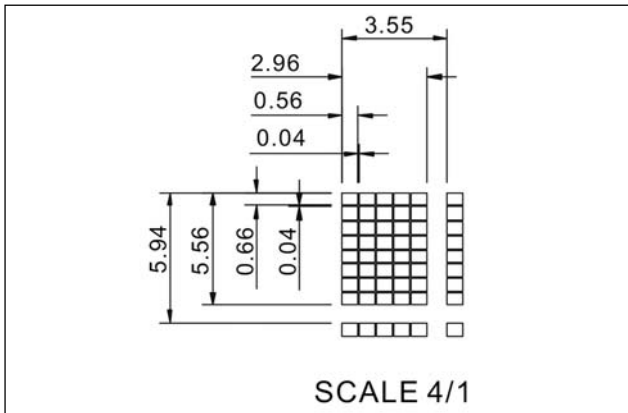
### 2 Lines x 16 Characters

### Intelligent Character Display

The AND481GST/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

- 5 x 7 Dots with cursor
- AND481GST-LED: STN with LED backlight
- Built-in controller (KS0066 or equivalent)
- 5V Power supply
- 1/16 Duty cycle
- 4.2V LED Forward voltage
- Dot Matrix Dimensions



#### Mechanical Characteristics

Item	Specification	Unit
Outline Dimensions	80.0 (H) x 36.0 (V) x 8.8 (D) (12.7 LED)	mm
Character Size	2.96 (H) x 5.56 (V)	mm
Character Pitch	3.55 (H) x 5.94 (V)	mm
Viewing Area	65.0 (H) x 16.0 (V)	mm
Dot Size	0.56 (H) x 0.66 (V)	mm
Dot Pitch	0.60 (H) x 0.70 (V)	mm

#### Absolute Maximum Ratings

Item	Symbol	Rating	Unit
Supply Voltage	$V_{DD}$	7.0	V

#### Absolute Maximum Ratings (Continued)

Item	Symbol	Rating	Unit
Input Voltage	$V_{IN}$	$0 \leq V_{IN} \leq V_{DD}$	V
LED Forward Current	$I_F$	200	mA
LED Reverse Voltage	$V_R$	8	V
LED Power Dissipation	$P_D$	920	mW
Operating Temperature	$T_{op}$	0 to +50	°C
Storage Temperature	$T_{stg}$	-20 to +60	°C

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

Item	Symbol	Cond.	Min.	Typ.	Max.	Unit	
LCD Operating Voltage	$V_{DD}-V_O$	T=0 °C	-	4.8	-	V	
		T=25 °C	-	4.5	-		
		T=50 °C	-	4.2	-		
Supply Voltage	$V_{DD}-V_{SS}$	-	4.7	5	5.3	V	
Supply Current	$I_{DD}$	-	-	2	4	mA	
Input Voltage	"High" Level	$V_{IH}$	-	2.2	-	$V_{DD}$	V
	"Low" Level	$V_{IL}$	-	0	-	0.6	
Output Voltage	"High" Level	$V_{OH}$	-	2.4	-	-	V
	"Low" Level	$V_{OL}$	-	-	-	0.4	

#### Optical Characteristics (TA = 25°C, f = 0°, q = 0°)

Item	Symbol	Min.	Typ.	Max.	Unit
Viewing Angle	f	-	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.

