AND791GST/GST-LED

4 Lines x 40 Characters
Intelligent Character Display

The AND791GST/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

• RoHS Compliant

- AND791GST: Super Twist Technology
- AND791GST-LED: STN with LED backlight
- 5 x 7 Dots with Cursor
- Built-in Controller (KS0066 or equivalent)
- 5V Power Supply
- 1/16 Duty Cycle
- 4.2V LED Forward Voltage

Mechanical Characteristics

Item	Specification	Unit
Module Size	190.0 (W) x 54.0 (H) x 8.8 (D) (13.0 LED)	mm
Viewing Area	149 (W) x 29.5 (H)	mm
Character Size	2.78 (W) x 4.89 (H)	mm
Character Pitch	3.53 (W) x 5.49 (H)	mm
Dot Size	0.50 (W) x 0.55 (H)	mm
Dot Pitch	0.57 (W) x 0.62 (H)	mm

Absolute Maximum Ratings

Item	Symbol	Rating	Unit
Supply Voltage	V_{DD}	7.0	V
Input Voltage	V_{IN}	$0 \le V_{IN} \le V_{DD}$	V
LED Forward Current	I_F	960	mA
LED Reverse Voltage	V_R	8	V
LED Power Dissipation	P_D	4160	mW
Operating Temperature	T_{op}	0 to +50	°C
Storage Temperature	T_{stg}	–20 to +70	°C

Electrical Characteristics (TA = 25°C)

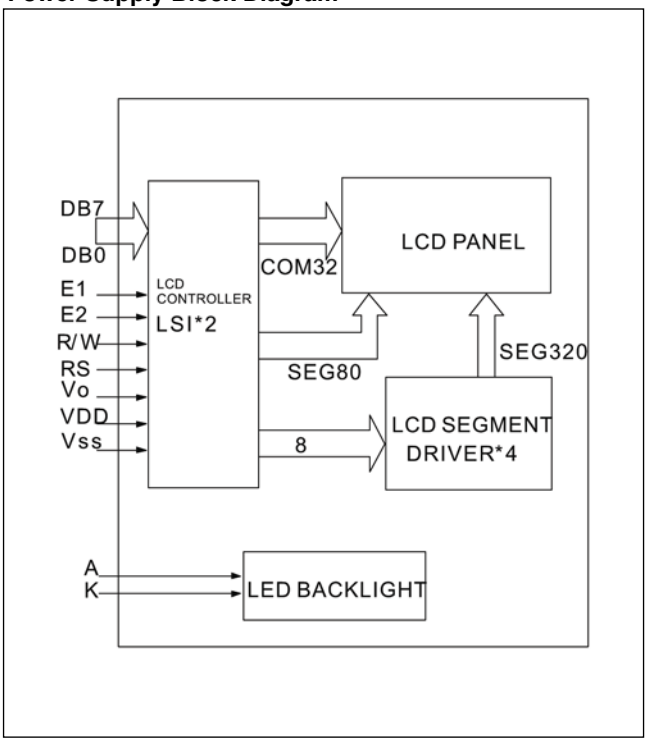
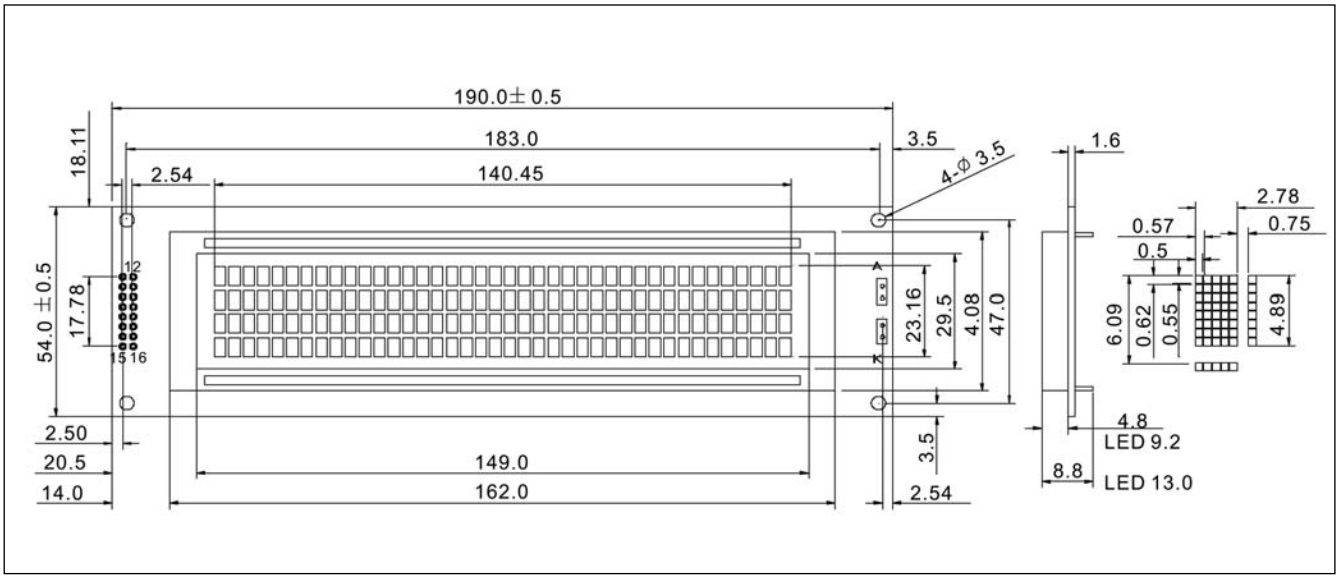
Item		Symbol	Condition	Min.	Typ.	Max.	Unit
LCD Operating Voltage		V_{DD}-V_O	T=0°C	–	4.8	–	V
			T=25°C	–	4.5	–	V
			T=50°C	–	4.2	–	V
Supply Voltage		V_{DD}-V_{SS}	–	4.7	5	5.3	V
Supply Current		I_{DD}	–	–	5.2	10.8	mA
Input Voltage	"High" Level	V_{IH}	–	2.2	—	V_{DD}	V
	"Low" Level	V_{IL}	–	0	–	0.6	V
Output Voltage	"High" Level	V_{OH}	–	2.4	–	–	V
	"Low" Level	V_{OL}	–	–	–	0.4	V

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.

Connector Pin Assignment

Pin No.	Signal	Function
1	DB_7	Data Bit 7
2	DB_6	Data Bit 6
3	DB_5	Data Bit 5
4	DB_4	Data Bit 4
5	DB_3	Data Bit 3
6	DB_2	Data Bit 2
7	DB_1	Data Bit 1
8	DB_0	Data Bit 0
9	E_1	Enable IC1
10	R/W	Read/Write
11	RS	Register Select
12	V_O	Contrast Adjustment
13	V_{SS}	0V
14	V_{DD}	5V
15	E_2	Enable IC2
16	NC	No Control

Power Supply Block Diagram



Dimensional Outline