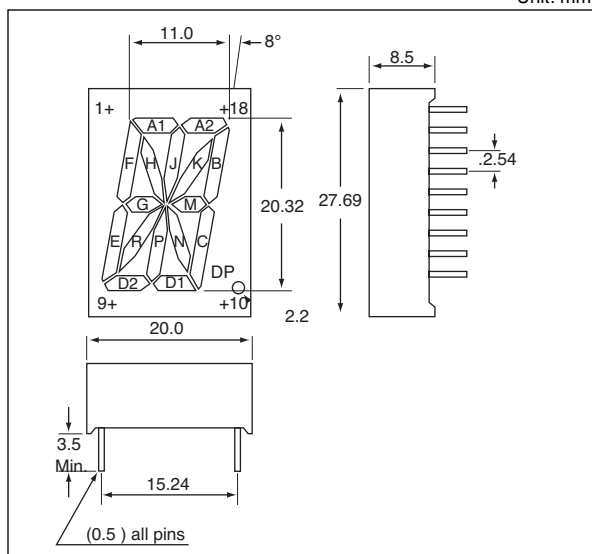


Unit: mm



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.

## AND-8010-B Series

### GaAsP/GaP-Red; GaP-Green

### 16 Segment, Single Digit, 0.8 Inch

#### Features

- 16 segment alphanumeric displays
- 0.8 inch character height
- Available in red or green
- Suitable for computer peripherals and terminal displays for viewing at a distance
- Available in both common cathode and common anode
- RoHS Compliant

#### Description

Size	Number of Digits	Common		Color		Number of Pins
		Cathode	Anode	Display	Face	
0.8 inch	1	AND-8010SCLB	AND-8010SALB	Red	Red	18
0.8 inch	1	AND-8010GCLB	AND-8010GALB	Green	Gray	18

#### Absolute Maximum Ratings (T = 25°C)

Characteristics	Symbol	Rating	Unit
DC Forward Current/Segment	$I_F(\text{DC})/\text{SEG}$	30	mA
Pulse Forward Current/Segment (1us Pulse - .3% Duty Cycle)	$I_{FP}/\text{SEG}$	100	mA
Reverse Voltage/Segment	$V_R$	3 (Red), 5 (Green)	V
Operating Temperature Range	$T_{Opr}$	-25 to 85	°C
Storage Temperature Range	$T_{Stg}$	-25 to 100	°C

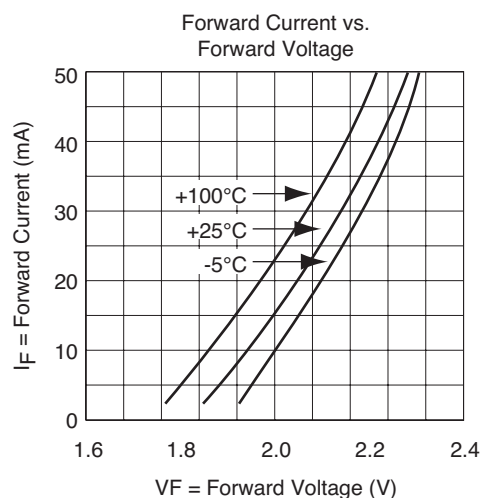
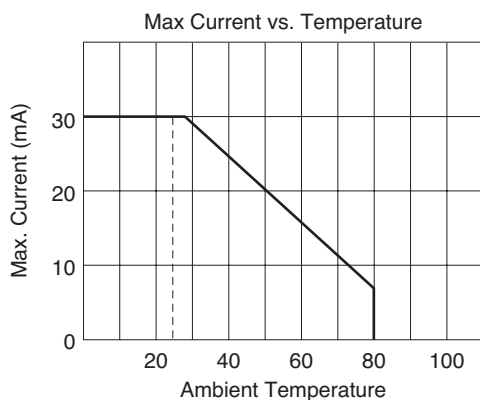
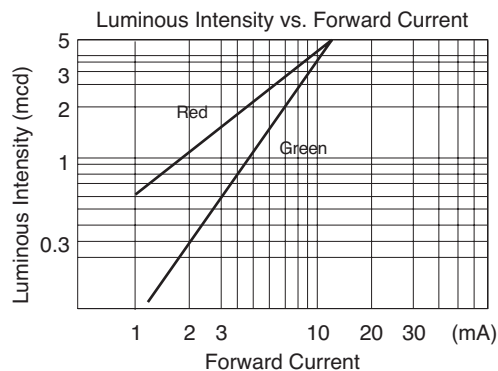
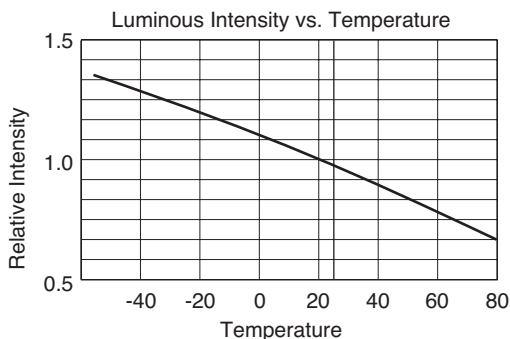
#### Electro-Optical Characteristics (T = 25°C)

Characteristics	Symbol	Test Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	$V_F$	$I_F = 10 \text{ mA}$	—	2.1	3.0	V
Reverse Current	$I_R$	$V_R = 3 \text{ (Red)}, 5 \text{ (Green)}$	—	—	100	$\mu\text{A}$
Luminous Intensity Per Segment	Red	$I_F = 10 \text{ mA}$	2.3	3.8	—	mcd
	Green		2.0	3.3	—	
Peak Emission Wavelength	Red	$I_F = 10 \text{ mA}$	—	635	—	nm
	Green		—	567	—	
Spectral Line Half Width	Red	$I_F = 10 \text{ mA}$	—	40	—	nm
	Green		—	30	—	

#### Precaution

Please be careful of the following:

1. Soldering temperature: 260°C max; Soldering time: 3 sec. max; Soldering portion of lead: up to 2 mm from the body of the device.
2. The lead can be formed up to 5 mm from the body of the device without forming stress. Soldering should be performed after the lead forming.


**AND-8010-B Series Pin Connection Table**

AND-8010GCLB			
Pin	Connection	Pin	Connection
1	A2 Seg. Anode	10	D1 Seg. Anode
2	A1 Seg. Anode	11	D2 Seg. Anode
3	F Seg. Anode	12	Common Cathode
4	H Seg. Anode	13	C Seg. Anode
5	E Seg. Anode	14	G Seg. Anode
6	J Seg. Anode	15	B Seg. Anode
7	P Seg. Anode	16	M Seg. Anode
8	R Seg. Anode	17	Common Cathode
9	N Seg. Anode	18	K Seg. Anode

AND-8010GALB			
Pin	Connection	Pin	Connection
1	A2 Seg. Cathode	10	D1 Seg. Cathode
2	A1 Seg. Cathode	11	D2 Seg. Cathode
3	F Seg. Cathode	12	Common Anode
4	H Seg. Cathode	13	C Seg. Cathode
5	E Seg. Cathode	14	G Seg. Cathode
6	J Seg. Cathode	15	B Seg. Cathode
7	P Seg. Cathode	16	M Seg. Cathode
8	R Seg. Cathode	17	Common Anode
9	N Seg. Cathode	18	K Seg. Cathode