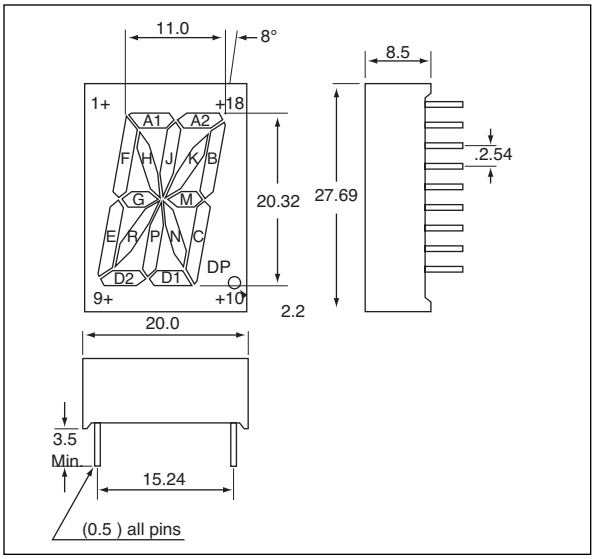
AND OPTOELECTRONICS

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(DC)/SEG	30	mA
Pulse Forward Current/Segment (1us Pulse - .3% Duty Cycle)	I_{FP}/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

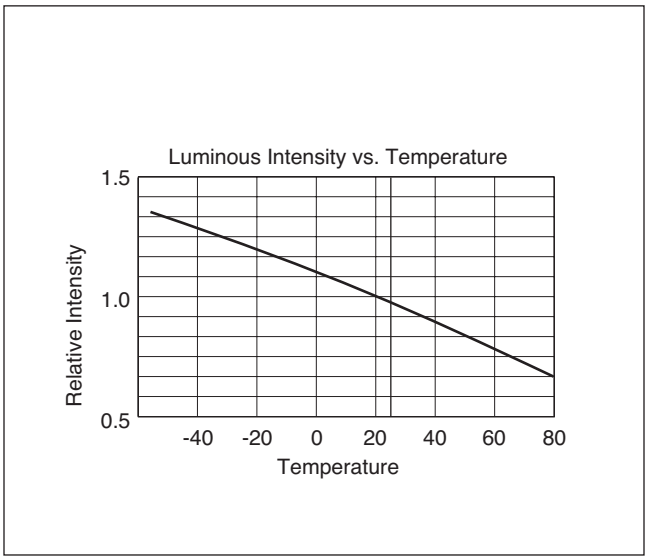
Electro-Optical Characteristics (T = 25°C)

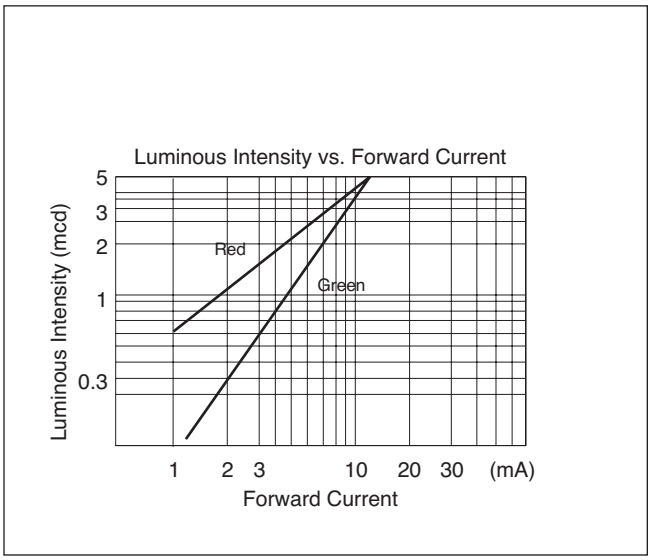
Characteristics		Symbol	Test Condition	Minimum	Typical	Maximum	Unit
Forward Voltage		V_F	I_F = 10 mA	–	2.1	3.0	V
Reverse Current		I_R	V_R = 3 (Red),5 (Green)	–	–	100	μA
Luminous Intensity Per Segment	Red	I_V	I_F = 10 mA	2.3	3.8	–	mcd
	Green			2.0	3.3	–	
Peak Emission Wavelength	Red	λ_P	I_F = 10 mA	–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

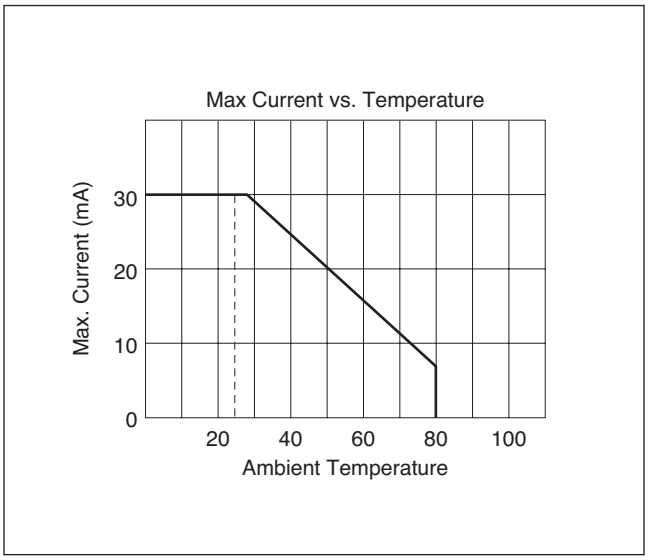
Precaution

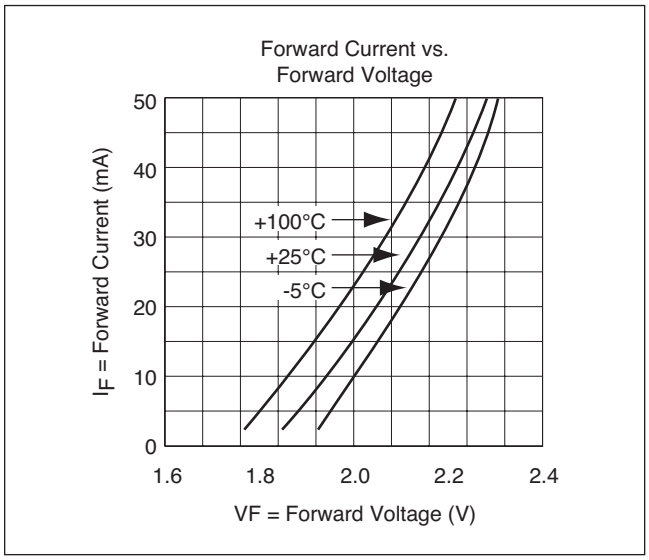
Please be careful of the following:

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