

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-4310 Series

GaAsP/GaP-Red; GaP-Green

7 Segment, 0.43 Inch

Features

- 0.43 inch character height
- Available in red or green
- Suitable for numerical readout for instrument and industrial products
- Industry pin-for-pin compatibility
- Available in both common cathode and common anode
- RoHS Compliant

Description

Size	Number of Digits	Common		Color		Number of Pins
		Cathode	Anode	Display	Face	
0.43 inch	1	AND-4310SCL	AND-4310SAL	Red	Red	14
0.43 inch	1	AND-4310GCL	AND-4310GAL	Green	Gray	14

Absolute Maximum Ratings (T = 25°C)

Characteristics	Symbol	Rating	Unit
DC Forward Current/Segment	$I_F(DC)/SEG$	30	mA
Pulse Forward Current/Segment	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

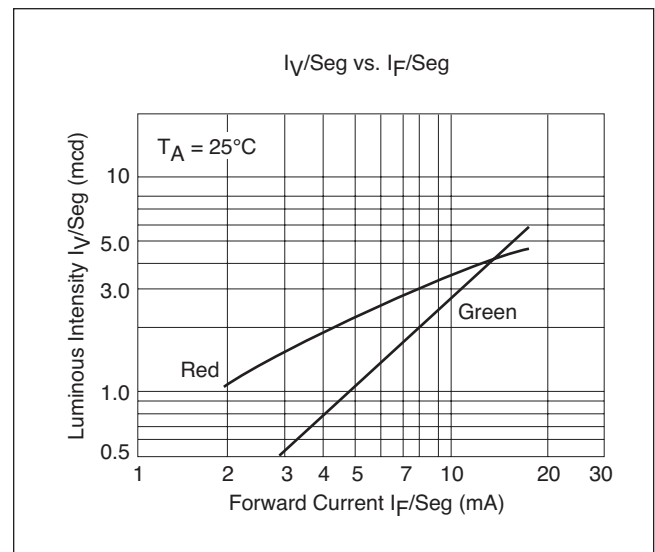
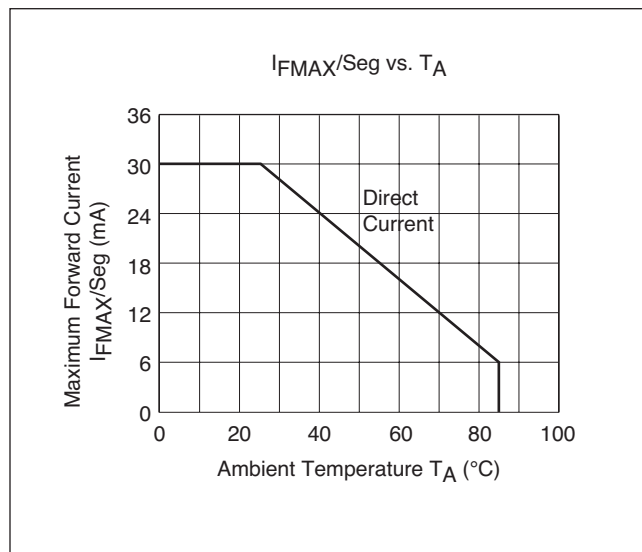
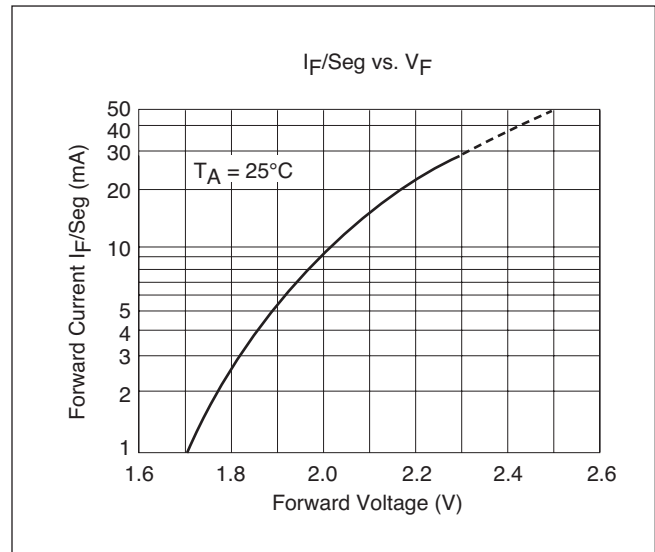
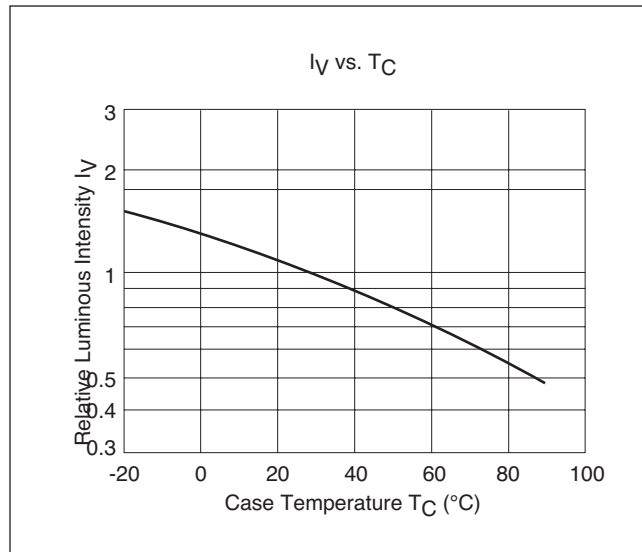
Electro-Optical Characteristics (T = 25°C)

Characteristics	Symbol	Test Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V_F	$I_F = 10 \text{ mA}$	—	2.1	3.0	V
Reverse Current	I_R	$V_R = 3 \text{ (Red)}, 5 \text{ (Green)}$	—	—	100	μA
Luminous Intensity Per Segment	Red	I_V	$I_F = 10 \text{ mA}$	1.3	3.3	mcd
	Green	I_V	$I_F = 10 \text{ mA}$	1.1	2.9	mcd
Peak Emission Wavelength	Red	λ_P	$I_F = 10 \text{ mA}$	—	635	nm
	Green	λ_P	$I_F = 10 \text{ mA}$	—	567	nm
Spectral Line Half Width	Red	$\Delta\lambda$	$I_F = 10 \text{ mA}$	—	40	nm
	Green	$\Delta\lambda$	$I_F = 10 \text{ mA}$	—	30	nm

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-4310 Series Pin Connection Table

AND-4310 SAL/GAL			
Pin	Connection	Pin	Connection
1	Cathode A	8	Cathode D
2	Cathode F	9	Cathode RHDP
3	Common Anode	10	Cathode C
4	No Pin	11	Cathode G
5	No Pin	12	No Pin
6	Cathode LHDP	13	Cathode B
7	Cathode E	14	Common Anode

AND-4310 SCL/GCL			
Pin	Connection	Pin	Connection
1	Anode A	8	Anode D
2	Anode F	9	Anode RHDP
3	Common Cathode	10	Anode C
4	No Pin	11	Anode G
5	No Pin	12	No Pin
6	Anode LHDP	13	Anode B
7	Anode E	14	Common Cathode