

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-2307 Series**

GaAsP/GaP-Red; GaP-Green 7 Segment, Large Size; 2.3 Inch

#### **Features**

- · Large size 7 segment displays
- · Available in red or green
- Suitable for large size displays for distance viewing; across-the-building status displays
- · Available in both common cathode and common anode
- RoHS Compliant

### Description

Size Number		Common		Color		Number	
Size	of Digits	Cathode	Anode	Display	Face	of Pins	
2.3 inch	1	AND-2307SCL	AND-2307SAL	Red	Red	10	
2.3 inch	1	AND-2307GCL	AND-2307GAL	Green	Gray	10	

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

Characteristics	Symbol	Rating	Unit
DC Forward Current/Segment	I <sub>F</sub> (DC)/SEG	30	mA
Reverse Voltage/Segment	V <sub>R</sub>	3 (Red), 5 (Green)	V
Operating Temperature Range	T <sub>Opr</sub>	-25 to 85	°C
Storage Temperature Range	T <sub>Stg</sub>	-25 to 100	°C

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

Characteristics		Symbol	Test Condition	Minimum	Typical	Maximum	Unit
Forward Voltage/Segment		V <sub>F</sub>	I <sub>F</sub> = 20 mA	-	8.4	12.0	V
Forward Voltage/D.P.		V <sub>F</sub>	I <sub>F</sub> = 10 mA	_	4.2	6.0	V
Reverse Current		I <sub>R</sub>	V <sub>R</sub> = 3 (Red), 5 (Green)	_	-	100	μΑ
Luminous Intensity Per Segment	Red	I <sub>V</sub>	I <sub>F</sub> = 10 mA	4.7	7.8	-	mcd
	Green	I <sub>V</sub>	I <sub>F</sub> = 10 mA	4.1	6.8	_	mcd
Peak Emission Wavelength	Red	λ <sub>P</sub>	I <sub>F</sub> = 10 mA	_	635	_	nm
	Green	$\lambda_{P}$	I <sub>F</sub> = 10 mA	_	567	_	nm
Spectral Line	Red	Δλ	I <sub>F</sub> = 10 mA	_	40	_	nm
Half Width	Green	Δλ	I <sub>F</sub> = 10 mA	_	30	_	nm

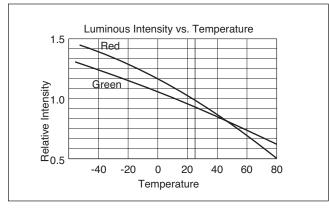
#### Precaution

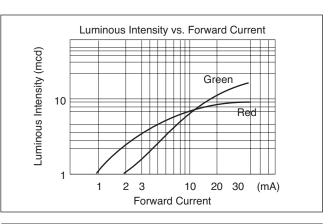
Please be careful of the following:

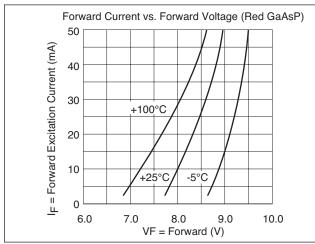
- 1. Soldering temperature: 260°C max; Soldering time: 3 sec. max; Soldering portion of lead: up to 2 mm from the body of the device.
- 2. The lead can be formed up to 5 mm from the body of the device without forming stress. Soldering should be performed after the lead forming.

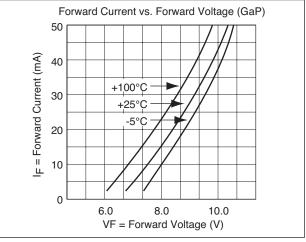


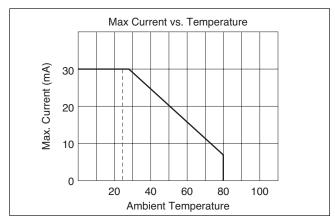
## GaAsP/GaP-Red; GaP-Green











## **AND-5610 Series Pin Connection Table**

AND-2307SCL					
Pin	Connection	Pin	Connection		
1	Common Cathode	6	Anode B		
2	Anode E	7	Anode A		
3	Anode D	8	Anode dp		
4	Anode C	9	Anode F		
5	Common Cathode	10	Anode G		

AND-2307SAL					
Pin	Connection	Pin	Connection		
1	Common Anode	6	Cathode B		
2	Cathode E	7	Cathode A		
3	Cathode D	8	Cathode dp		
4	Cathode C	9	Cathode F		
5	Common Anode	10	Cathode G		