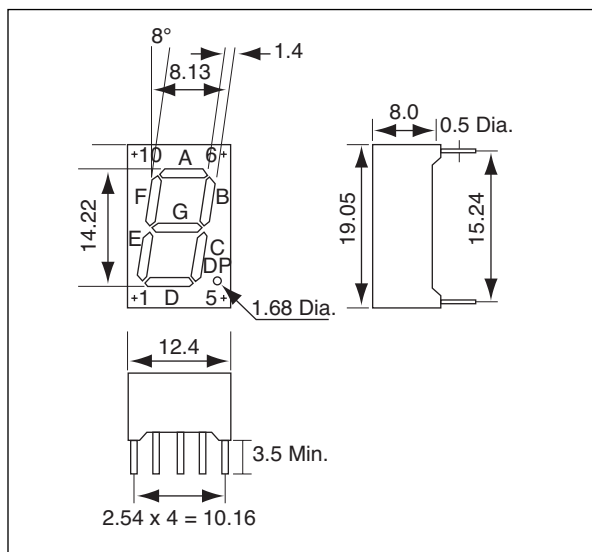


Unit: mm



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-5610 Series

GaAsP/GaP-Red; GaP-Green

7 Segment, 0.56 Inch

Features

- 0.56 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 | |
| 0.56 inch | 1 | AND-5610SCL | AND-5610SAL | Red | Red | 10 |
| 0.56 inch | 1 | AND-5610GCL | AND-5610GAL | Green | Gray | 10 |

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 |

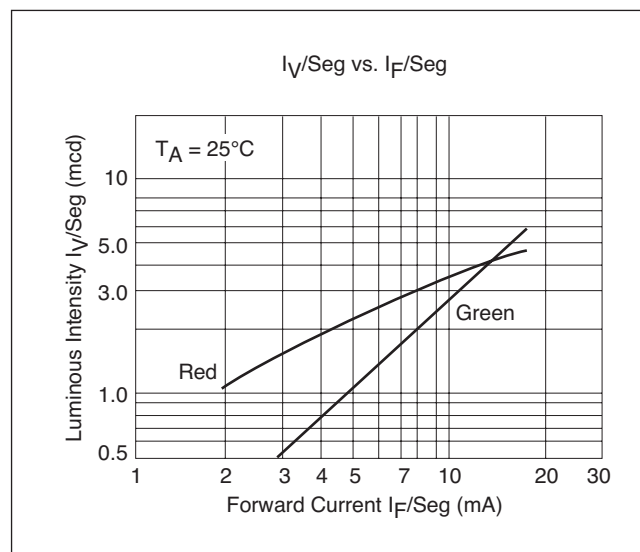
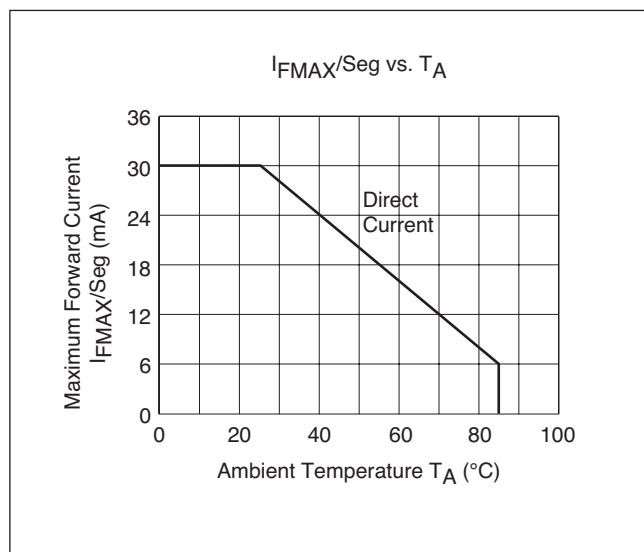
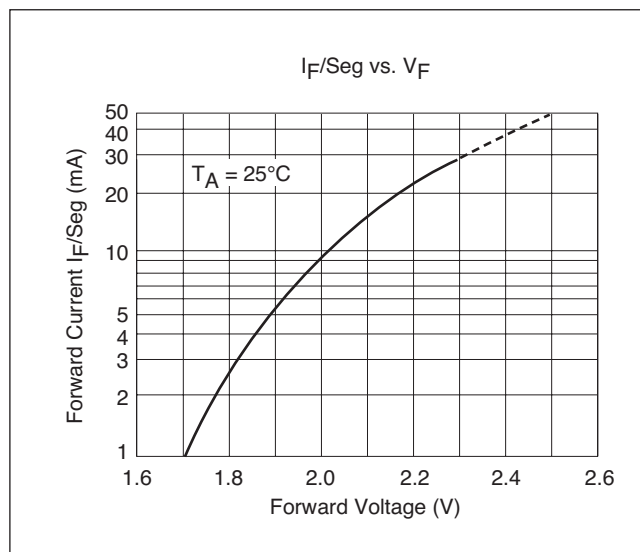
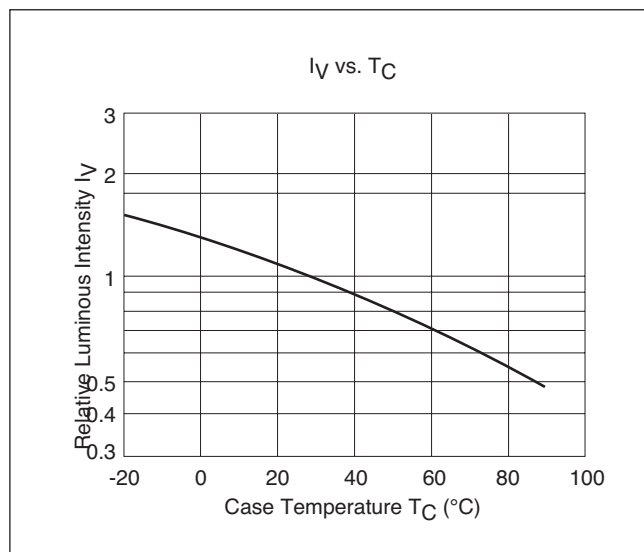
Electro-Optical Characteristics (T = 25°C)

| 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 | $I_F = 10 \text{ mA}$ | 2.0 | 3.3 | — | mcd |
| | Green | $I_F = 10 \text{ mA}$ | 1.7 | 2.9 | — | mcd |
| Peak Emission Wavelength | Red | $I_F = 10 \text{ mA}$ | — | 635 | — | nm |
| | Green | $I_F = 10 \text{ mA}$ | — | 567 | — | nm |
| Spectral Line Half Width | Red | $I_F = 10 \text{ mA}$ | — | 40 | — | nm |
| | Green | $I_F = 10 \text{ mA}$ | — | 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-5610 Series Pin Connection Table

| AND-5610SCL/GCL | | | |
|-----------------|----------------|-----|----------------|
| Pin | Connection | Pin | Connection |
| 1 | Anode E | 6 | Anode B |
| 2 | Anode D | 7 | Anode A |
| 3 | Common Cathode | 8 | Common Cathode |
| 4 | Anode C | 9 | Anode F |
| 5 | Anode Dp | 10 | Anode G |

| AND-5610SAL/GAL | | | |
|-----------------|--------------|-----|--------------|
| Pin | Connection | Pin | Connection |
| 1 | Cathode E | 6 | Cathode B |
| 2 | Cathode D | 7 | Cathode A |
| 3 | Common Anode | 8 | Common Anode |
| 4 | Cathode C | 9 | Cathode F |
| 5 | Cathode Dp | 10 | Cathode G |