

AND-8010 Series

GaAsP/GaP-Red; GaP-Green

7 Segment, 0.8 Inch

Features

- Large size—7 segment displays
- 0.8 inch character height
- 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 of Digits | Common | | Color | | Number of Pins |
|----------|------------------|-------------|-------------|---------|------|----------------|
| | | Cathode | Anode | Display | Face | |
| 0.8 inch | 1 | AND-8010SCL | AND-8010SAL | Red | Red | 16 |
| 0.8 inch | 1 | AND-8010GCL | AND-8010GAL | Green | Gray | 16 |

Absolute Maximum Ratings (T = 25°C)

| Characteristics | Symbol | Rating | Unit |
|-----------------------------|-----------------------------|--------------------|------|
| DC Forward Current/Segment | $I_F(\text{DC})/\text{SEG}$ | 30 | 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 | $I_F = 10 \text{ mA}$ | 2.3 | 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 | — | |

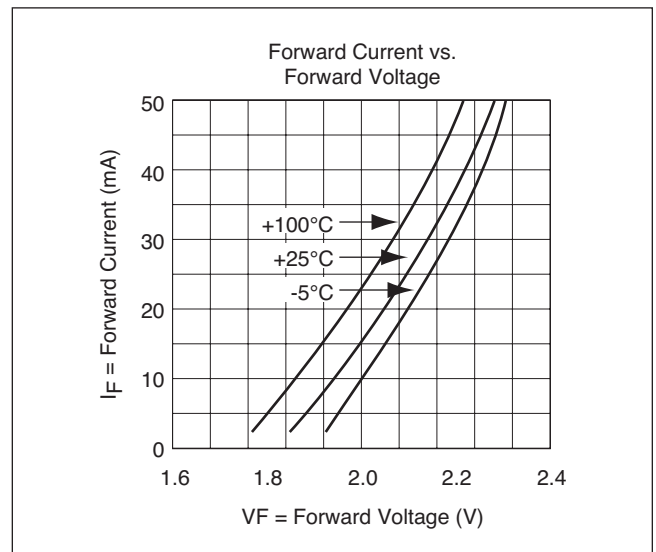
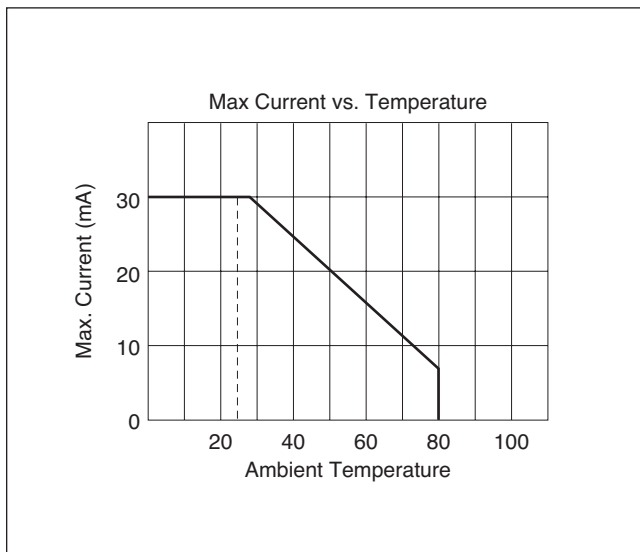
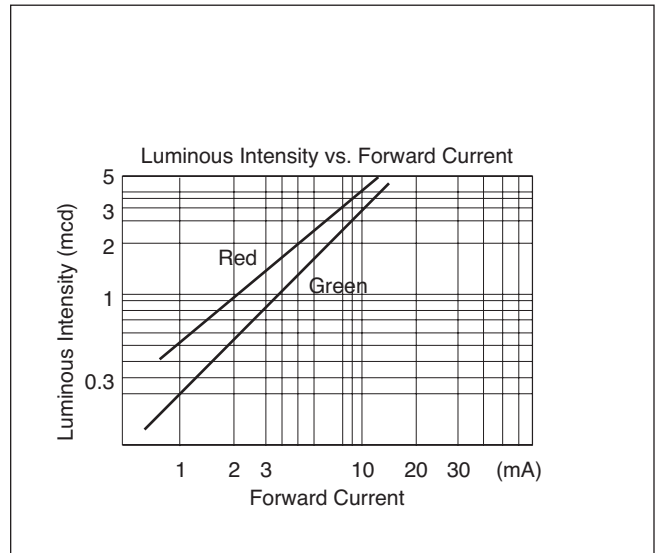
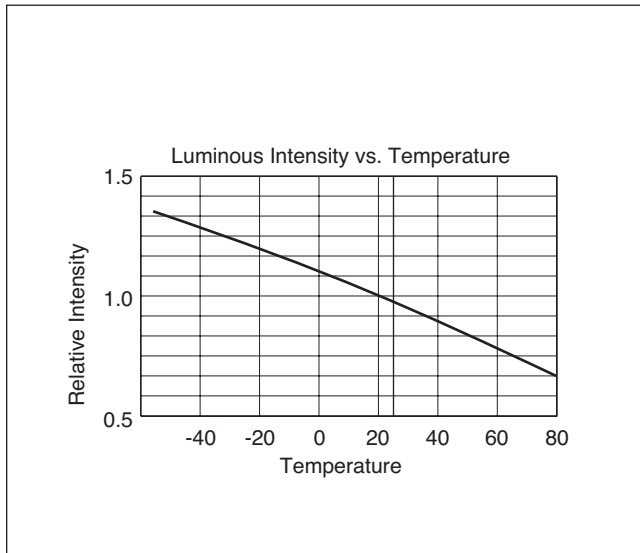
Precaution

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.

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 Series Pin Connection Table

| AND-8010GCL | | | |
|-------------|----------------|-----|----------------|
| Pin | Connection | Pin | Connection |
| 1 | Anode A | 9 | Anode R.H. dp |
| 2 | Anode F | 10 | Anode D |
| 3 | Common Cathode | 11 | Common Cathode |
| 4 | Anode E | 12 | Anode C |
| 5 | Common Cathode | 13 | Anode G |
| 6 | Anode L.H. dp | 14 | Anode B |
| 7 | No pin | 15 | No pin |
| 8 | No pin | 16 | Common Cathode |

| AND-8010GAL | | | |
|-------------|-----------------|-----|-----------------|
| Pin | Connection | Pin | Connection |
| 1 | Cathode A | 9 | Cathode R.H. dp |
| 2 | Cathode F | 10 | Cathode D |
| 3 | Common Anode | 11 | Common Anode |
| 4 | Cathode E | 12 | Cathode C |
| 5 | Common Anode | 13 | Cathode G |
| 6 | Cathode L.H. dp | 14 | Cathode B |
| 7 | No pin | 15 | No pin |
| 8 | No pin | 16 | Common Anode |