

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-1510 Series

GaAsP/GaP-Red

7 Segment, 1.5 Inch

Features

- 1.5 inch character height
- Available in red
- 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 | |
| 1.5 inch | 1 | AND-1510SCL | AND-1510SAL | Red | Red | 10 |

Absolute Maximum Ratings (T = 25°C)

| Characteristics | Symbol | Rating | Unit |
|-------------------------------|-----------------------------|------------|------|
| DC Forward Current/Segment | $I_F(\text{DC})/\text{SEG}$ | 30 | mA |
| Pulse Forward Current/Segment | I_{FP}/SEG | 100 | mA |
| Reverse Voltage/Segment | V_R | 3 | V |
| Operating Temperature Range | T_{Opr} | -25 to 85 | °C |
| Storage Temperature Range | T_{Stg} | -25 to 100 | °C |

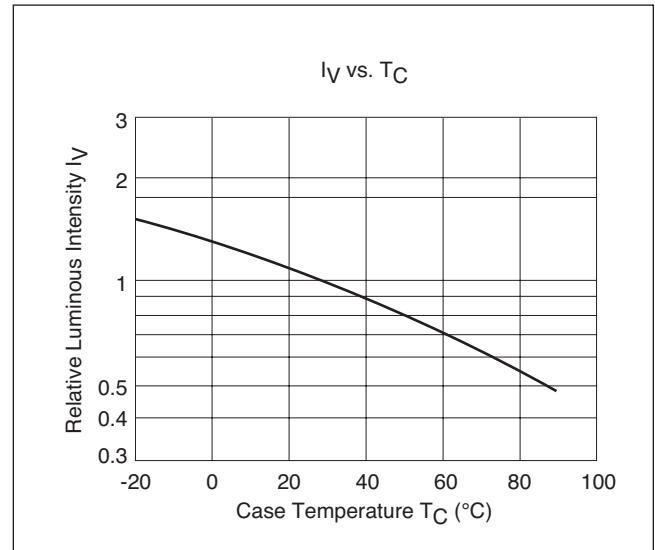
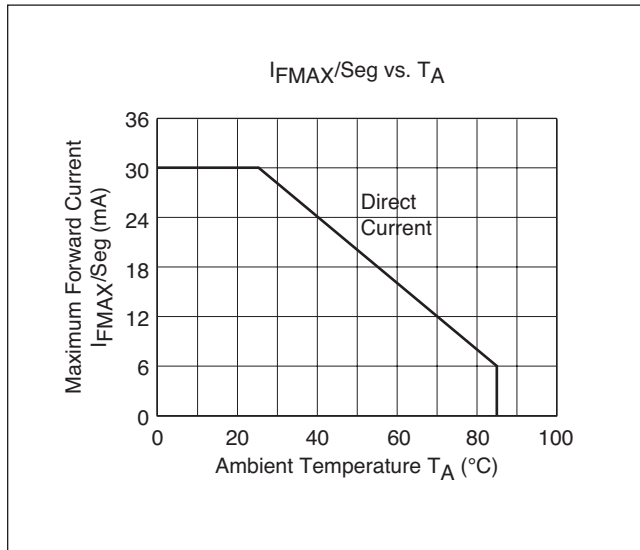
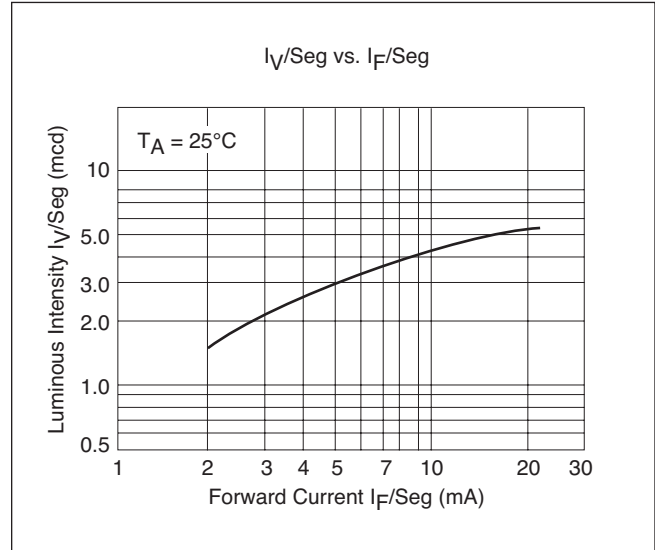
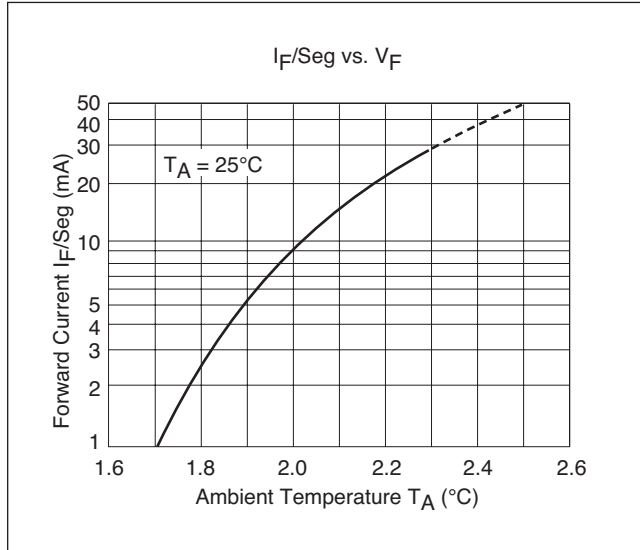
Electro-Optical Characteristics (T = 25°C)

| Characteristics | Symbol | Test Condition | Minimum | Typical | Maximum | Unit |
|--------------------------------|------------------------|-----------------------|---------|---------|---------|---------------|
| Forward Voltage/Segment | V_F | $I_F = 10 \text{ mA}$ | – | 4.2 | 6.0 | V |
| Forward Voltage/D.P. | V_F | $I_F = 10 \text{ mA}$ | – | 2.1 | 3.0 | V |
| Reverse Current | I_R | $V_R = 3 \text{ V}$ | – | – | 100 | μA |
| Luminous Intensity Per Segment | Red I_V | $I_F = 10 \text{ mA}$ | 1.8 | 4.6 | – | mcd |
| Peak Emission Wavelength | Red λ_P | $I_F = 10 \text{ mA}$ | – | 635 | – | nm |
| Spectral Line Half Width | Red $\Delta\lambda$ | $I_F = 10 \text{ mA}$ | – | 40 | – | 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-1510 Series Pin Connection Table

| AND-1510SCL | | | |
|-------------|----------------|-----|------------|
| Pin | Connection | Pin | Connection |
| 1 | Common Cathode | 6 | B Anode |
| 2 | E Anode | 7 | A Anode |
| 3 | D Anode | 8 | Dp Anode |
| 4 | C Anode | 9 | F Anode |
| 5 | Common Cathode | 10 | G Anode |

| AND-1510SAL | | | |
|-------------|--------------|-----|------------|
| Pin | Connection | Pin | Connection |
| 1 | Common Anode | 6 | B Cathode |
| 2 | E Cathode | 7 | A Cathode |
| 3 | D Cathode | 8 | Dp Cathode |
| 4 | C Cathode | 9 | F Cathode |
| 5 | Common Anode | 10 | G Cathode |