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-4310 Series <br> 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 <br> of Digits | Common |  | Color |  | Number <br> 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 ( $\mathbf{T}=\mathbf{2 5}{ }^{\circ} \mathrm{C}$ )

| Characteristics | Symbol | Rating | Unit |
| :--- | :---: | :---: | :---: |
| DC Forward Current/Segment | $\mathrm{I}_{\mathrm{F}}(\mathrm{DC}) / \mathrm{SEG}$ | 30 | mA |
| Pulse Forward Current/Segment | $\mathrm{I}_{\mathrm{FP}} / \mathrm{SEG}$ | 100 | mA |
| Reverse Voltage/Segment | $\mathrm{V}_{\mathrm{R}}$ | 3 (Red), 5 (Green) | V |
| Operating Temperature Range | $\mathrm{T}_{\mathrm{Opr}}$ | -25 to 85 | ${ }^{\circ} \mathrm{C}$ |
| Storage Temperature Range | $\mathrm{T}_{\mathrm{Stg}}$ | -25 to 100 | ${ }^{\circ} \mathrm{C}$ |

Electro-Optical Characteristics ( $\mathrm{T}=25^{\circ} \mathrm{C}$ )

| Characteristics |  | Symbol | Test Condition | Minimum | Typical | Maximum | Unit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Forward Voltage |  | $V_{F}$ | $\mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}$ | - | 2.1 | 3.0 | V |
| Reverse Current |  | $\mathrm{I}_{\mathrm{R}}$ | $\mathrm{V}_{\mathrm{R}}=3$ (Red), 5 (Green) | - | - | 100 | $\mu \mathrm{A}$ |
| Luminous Intensity Per Segment | Red | $\mathrm{I}_{\mathrm{V}}$ | $\mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}$ | 1.3 | 3.3 | - | mcd |
|  | Green | $\mathrm{I}_{\mathrm{V}}$ | $\mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}$ | 1.1 | 2.9 | - | mcd |
| Peak Emission Wavelength | Red | $\lambda_{P}$ | $\mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}$ | - | 635 | - | nm |
|  | Green | $\lambda_{P}$ | $\mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}$ | - | 567 | - | nm |
| Spectral Line Half Width | Red | $\Delta \lambda$ | $\mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}$ | - | 40 | - | nm |
|  | Green | $\Delta \lambda$ | $\mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}$ | - | 30 | - | nm |

## Precaution

Please be careful of the following:

1. Soldering temperature: $260^{\circ} \mathrm{C}$ 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





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 |

