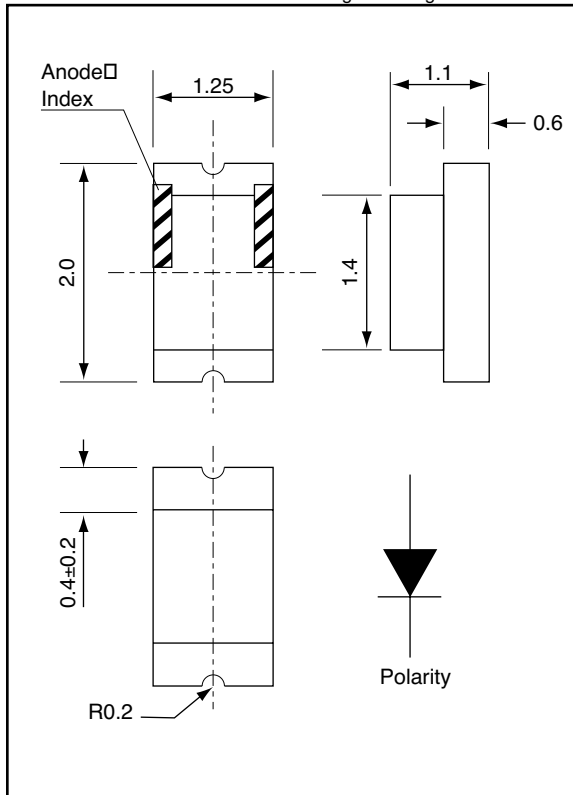




Weight: 2.0 mg Unit: mm



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.

AND4RA

GaAlAs Ultra Bright Red Light Emission Surface Mount Package

Features

- Small package size
- 2.0 (l) x 1.25 (w) x 1.1 (h) size
- Suitable for DIP and REFLOW soldering
- Recommended Forward Current: 10 mA
- RoHS Compliant

Maximum Ratings ($T_a = 25^\circ\text{C}$)

| Characteristics | Symbol | Rating | Unit |
|-----------------------------|-----------|-----------|------------------|
| Forward Current | I_F | 40 | mA |
| Reverse Voltage | V_R | 5 | V |
| Power Dissipation | P_D | 110 | mW |
| Operating Temperature Range | T_{Opr} | -40 to 85 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{Sig} | -40 to 90 | $^\circ\text{C}$ |

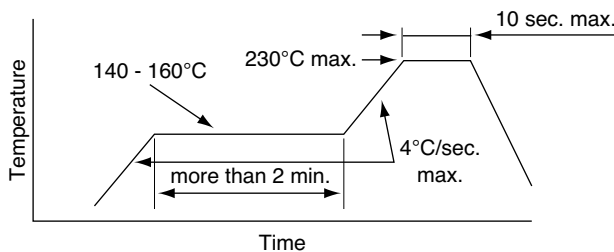
Electro-Optical Characteristics ($T_a = 25^\circ\text{C}$)

| Characteristics | Symbol | Test Condition | Minimum | Typical | Maximum | Unit |
|--------------------------|-----------------|--------------------------|---------|---------|---------|---------------|
| Forward Voltage | V_F | $I_F = 20 \text{ mA}$ | – | 1.7 | 2.4 | V |
| Reverse Current | I_R | $V_R = 5 \text{ V}$ | – | – | 10 | μA |
| Luminous Intensity | I_V | $I_F = 20 \text{ mA}$ | 20 | 40 | – | mcd |
| Peak Emission Wavelength | I_P | $I_F = 20 \text{ mA}$ | – | 660 | – | nm |
| Spectral Line Half Width | $\Delta\lambda$ | $I_F = 20 \text{ mA}$ | – | 20 | – | nm |
| Dominant Wavelength | λ_d | $I_F = 20 \text{ mA}$ | – | 643 | – | nm |
| Full Viewing Angle | θ | $I_V = 1/2 \text{ Peak}$ | – | 140 | – | degree |

Precaution

Please be careful of the following:

1. Manual soldering: maximum temperature of iron tip: 260 $^\circ\text{C}$ max.
Soldering time: within 5 sec. per solder-land
Soldering portion of lead: up to 1.6 mm from the body of the device
2. Reflow solder: recommended condition is as follows:



The following soldering patterns are recommended for reflow soldering

