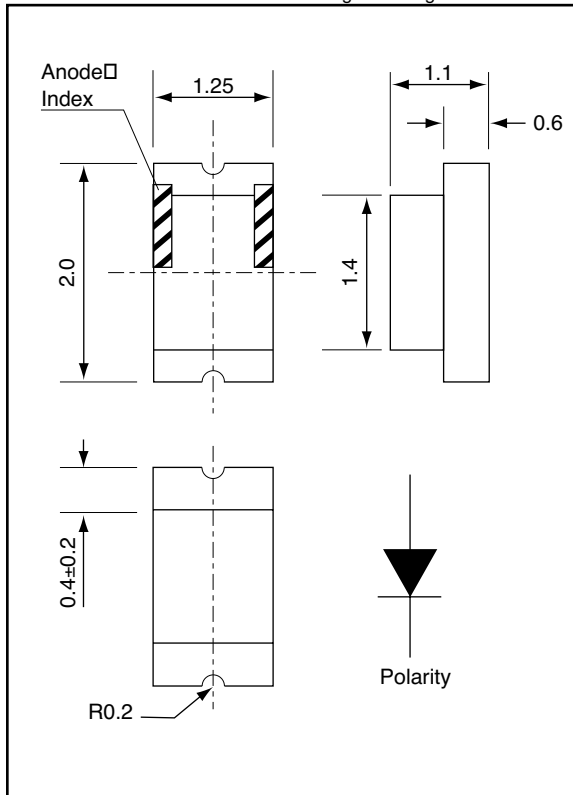




Weight: 2.0 mg Unit: mm



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	$^\circ\text{C}$

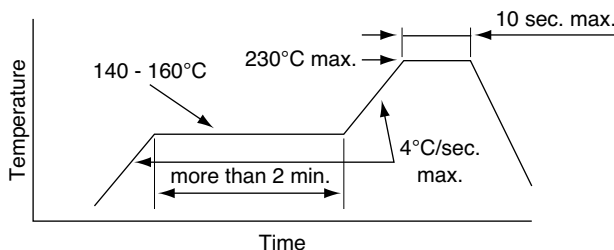
Electro-Optical Characteristics ($T_a = 25^\circ\text{C}$)

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°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

